

U.S. Department of Transportation

**ISSUE: 98-17** 

Federal Aviation Administration





April 19, 1998 - April 25, 1998

# Summary

**GENERAL AVIATION, ZAC-327** 

You can improve Air Safety by reporting the problem when you see it!

### **SECTION**

- I Significant Occurence Report
- II Domestic Service Difficulty Report
- **III** International Service Difficulty Report
- IV SDR Totals by District Office
- V Index By Aircraft Make and Model
- VI Joint Aircraft System/Component Code Table



# **SDR SUMMARY**

General Aviation, ZAC-327



This summary includes domestic (United States) Service Difficulty Reports (SDRs) entered into the data base for aircraft weighing 12,500 lbs. and below. It also includes reports on aeronautical products (engines, propellers, and components), and all helicopters. A separate section for International SDRs for aircraft weighing 12,500 lbs. and under has also been included. Under a data exchange agreement, International SDRs are submitted to the FAA by the Civil Aviation Authority of other countries (currently, Canada - CAN, and Australia - AUS). All reports are sorted by aircraft make, model group (basic model), and Joint Aircraft System/Component (JASC) code. Within each aircraft model group, the specific model shown may vary, but similar types of reports will be grouped together and listed in ascending order by their JASC code. Each field contains all information submitted to the FAA. Some fields are not included in order to make the summary easier to read. Additional information may be obtained by referring to the "operator control number." Send your request to the Aviation Data Systems Branch, AFS-620 at the address or phone below.

The Regulatory Support Division (AFS-600) has established a "HomePage" on the Internet through which the same information is available. There is a large quantity of other information available through the AFS-600 HomePage such as the most current SDR system codes (i.e., Joint Aircraft System\Component Codes). The SDR Question and Answer Section of the Summary will also be transferred to the AFS-600 HomePage to simplify the process of preparing the SDR Summaries in the PDF format each week. There are "hot buttons" to take you to other locations and sites where FAA Flight Standards Service Information is available. The AFS-600 "HomePage" address is:

### http://www.mmac.jccbi.gov/afs/afs600

"The Service Difficulty Reports in this publication are derived from unverified information submitted by the aviation community without FAA verification for accuracy. The number of SDRs submitted is not an indication of the mechanical reliability or fitness of an airline or individual operator, and the information should not be used as such."

Comments are welcomed and may be directed to:

Federal Aviation Administration Aviation Data Systems Branch, AFS-620 P.O. Box 25082 Oklahoma City, OK 73125-5029

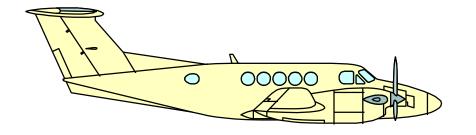
Phone: (405) 954-4171, Fax: (405) 954-4748

Your continued participation is essential and is an integral part of ensuring aviation safety. Thank you for supporting the Service Difficulty Program! If you have any questions regarding this special notice you can contact John Jackson at (405) 954-6486, or Jim Gillespie at (405) 954-1141, or Blake McDonald at (405) 954-0307 in the Aviation Systems Branch (AFS-620). Their E-mail addresses are:

john\_e\_jackson@mmacmail.jccbi.gov

james\_gillespie@mmacmail.jccbi.gov

blake\_mcdonald@mmacmail.jccbi.gov



# SIGNIFICANT OCCURRENCE REPORT





### THE SIGNIFICANT OCCURRENCE REPORT



The Significant Occurrence Report is a compilation all of the star bordered reports that appear in the General Aviation Service Difficulty Report (SDR) Summary, ZAC-327. The Significant Occurrence Report is used to highlight industry problem areas to field inspectors and the aviation public.

Limited analysis is performed by the Aviation Data Systems Branch, AFS-620 during the preparation of the "Significant Occurrence Report", which is generated each week and is included in the front of the Air Carrier SDR Summary. Significant Reports are hand selected by AFS-620's inspectors based on the individual merit of each report. The criteria for selection includes, but is not limited to, items that indicate high failure rates; items related to accidents or incidents; or design or maintenance failures which may affect the safe operation of the aircraft.

In some cases, this limited analysis of SDR data leads to the preparation of information bulletins which are routed to the appropriate product certification office for further investigation of the problem. The end result may be the issuance of an airworthiness directive (AD) by the Aircraft Certification Service (AIR) if warranted.

The Significant Occurrence Report (section I) of the weekly SDR Summary is not intended to be a summary of all significant events and should not be used as such. We recommend that you review further the applicable sections of the SDR summary that may be of interest.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2750	8638V	BBAVIA				CABLE	BROKEN		2/25/98
AW4R	16275	8GCBC				19023	RT FLAP		98ZZZX1561
****	RIGHT WING ROO	TS. THE LEFT CABLE	HAD BEEN REPLACEI	D (DUE TO BREAKIN	G AT THIS LOCATION		HEY PASS OVER THE P/N 1-2 HOURS PREVIOUSLY IN 199 H GROOVE DIA) PULLEY.		
5511	6014F	BEECH				SPAR	CRACKED	6404	3/27/98
AKGR	M2107	C23			169620001603	16962000159	STAB HINGE ATT		98ZZZX1555
****		LATOR MAIN SPAR AI DETAILED INSPECTION				RCRAFT USED FOR FLIGHT	TRAINING. CRACKS DUE T	ΓO FATIGU	E. SUBMITTER
2140	3812C	BEECH				SOLENOID	LEAKING	460	3/30/98
BF8R	ME390	76			B4500	44008	HEATER FUEL		98ZZZX1595
****		EATER OPERATION FO ED OVERBOARD. FUR					HE WIRING COMES OUT OF	. FUEL PU	DDLED UP IN DRAIN
3211	301ER	BEECH				SUPPORT	CRACKED	2833	9/25/96
DYTR	LJ1286	C90A			901200602	9012006094	RT MLG INBD		96ZZZX5365
****			·		,		) WERE FOUND CRACKED 5 SHIP MAINTENANCE SHOP F		
3211	301ER	BEECH				SUPPORT	CRACKED	2833	9/25/96
DYTR	LJ1286	C90A			901200602	9012006092	RT MLG OTBD		96ZZZX5364
*****							) WERE FOUND CRACKED 5 SHIP MAINTENANCE SHOP F		
3233		CESSNA				BOLT	SHEARED	4660	6/7/93
		172RG				AN17522A	RT MLG ACTUATOR		CA930622205
****							OLT HELD IN PLACE BY GRE EPLACED WITH ONES REQU		
3710	54413	CESSNA				HOSE	DETERIORATED	7211	3/1/98
	17274970	172P				B904	VACUUM SYSTEM		98ZZZX1554
****		I HOSE BELIEVED TO I NTERNAL HOSE MATE			LEAK. TROUBLES	SHOOTING, HOSE APPEARI	ED OK UNTIL WIGGLED BY F	HAND. CRA	ACKS IN HOSE
3230	3038R	CESSNA				TORQUE TUBE	FAILED	12920	3/12/98
	320A0038	320A				081330046	NLG UPLOCK		98ZZZX1549
****		N INSPECTION, FOUN					EXTENDED AND LOCKED. N S HAVE .3125 INCH STUD). S		
8520	5388J	CESSNA	CONT			BOLT	FAILED		3/1/98
GNBA	4040666	404	GTSIO520M			537750	NR 6 INT ROCKER	1113	98ZZZX1553
****							AMOUNT OF OIL STREAMINOLT, GROUND CHECK OK.	NG BACK.	PILOT RETURNED TO

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6220	900LF	DOUG				DROOP STOP	CRACKED	778	4/9/98
EGRA	90000022	MD900				900R2100001103	M/R HEAD		98ZZZX1613
****	POINT SECURING		OTOR HEAD. IF DROC	P STOP SUPPORT W	ERE TO DEPART AIR		ACKED COMPLETELY TH ADE WOULD CONTACT TA		
5751	307CL	GULSTM				SPAR	CRACKED	5803	3/27/98
FTKR	11508	690B					RT AILERON		98ZZZX1541
****		ID AILERON SPARS CR ED TO TOTAL TIME.	ACKED. LOCATION:	INBOARD HINGE BI	RACKET ATTACH PO	OINT. LT AILERON HAD .7	5 INCH CRACK. RT AILER	ON HAD 2.25	INCH CRACK. CAUSE
7120	40PM	PIPER	CONT			MOUNT	CRACKED	1664	3/26/98
BONR	4608005	PA46310P	TSIO520BE			8401002	FIREWALL RT		98ZZZX1551
****		INSPECTION, FOUND E POSITIONED SUCH TH			CRACK IS LOCATED	WHERE NLG HYDRAULIC	ACTUATOR ATTACHES 1	TO MOUNT. 1	DESIGN REQUIRES

## Run Date: 30-Apr-98

# FEDERAL AVIATION ADMINISTRATION SIGNIFICANT OCCURRENCE REPORT INDEX

Showing Specific Part Numbers and Aircraft Model by Year

FOR THE PERIOD OF: 4/19/98 To 4/25/98

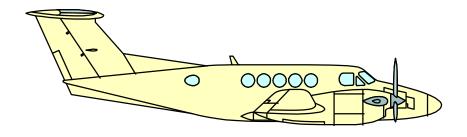
PART NUMBER		<u>-</u>						YEA	AR .					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>081330046</b> TORQUE TUBE	310K	1	-	-	-	-	1	-	-	-	-	-	-	-
	320A	1												1
TOTAL of # 08133004	16	2	-	-	-	-	1	-	-	-	-	-	-	1
<b>16962000159</b> FRONT SPAR	C23	1	-	-	-	-	-	1	-	-	-	-	-	-
SPAR	C23	1	-	-	-	-	-	-	-	-	-	-	-	1
TOTAL of # 16962000	)159	2			_			1	-	_	_		-	1
<b>19023</b> CABLE	8GCBC	1									_			1
TOTAL of # 19023		1	-	-	-	-	-	-	-	-	-	-	-	1
44008 SOLENOID	76	1	-	-	-	-	-	-	-	-	-	-	-	1
	PA31350	1	-	-	-	-	-	-	-	-	-	-	1	-
TOTAL of # 44008		2		-					-	_	_		1	1
<b>537750</b> BOLT	404	1	-	-	-	-	-	-	-	-	-	-	-	1
	404CESSNA	1	-	-	-	-	-	-	1	-	-	-	-	-
	421B	1	-	-	-	-	-	-	1	-	-	-	-	-
	421C	3	-	-	-	-	1	-	-	-	-	1	-	1
RETAIN BOLT	404CESSNA	1	-	-	-	-	-	-	-	1	-	-	-	-
SCREW	421B	1				1								
TOTAL of # 537750 -		8	-	-	-	1	1	-	2	1	-	1	-	2

## FAA SIGNIFICANT OCCURRENCE REPORT INDEX 4/19/98 To 4/25/98 (cont'd)

PART NUMBER		_						YEA	R					
PART NAME	ACFT MODEL	TOTAL	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998
<b>8401002</b> MOUNT	PA46310P	3	-	-	-	1	1	-	-	-	-	-	-	1
<b>TOTAL of #8401002</b>		3				1	1							1
<b>900R2100001103</b> DROOP STOP	MD900	1	-	-	-	_	-	_	-	-	-	-	-	1
TOTAL of # 900R210	0001103	1												1
9012006092 SUPPORT	C90A	1												1
TOTAL of # 9012006	092	1	-	-	-	-	-	-	-	-	-	-	-	1
<b>9012006094</b> SUPPORT	C90A	1												1
TOTAL of # 9012006	094	1	-	-	-	-	-	-	-	-	-	-	-	1
AN17522A BOLT	172RG	1												1
TOTAL of # AN17522	2A	1	-	-	-	-	-	-	-	-	-	-	-	1
B904 HOSE	152	1	-	-	-	-	-	-	-	-	-	1	-	-
	172P	1	-	-	-	-	-	-	-	-	-	-	-	1
	182R	1	-	-	-	-	-	-	-	-	1	-	-	-
	A152	1	-	-	-	-	-	-	-	-	-	1	-	-
	R182	1	-	-	-	-	-	-	-	-	1	-	-	-
LINE	152	1	-	-	-	-	-	-	-	1	-	-	-	-
	172P	1								1				
TOTAL of # B904		7	-	-	-	-	-	-	-	2	2	2	-	1
TOTAL for ALL (25) PAREND OF SIGNIFICANT OCC		29	-	-	-	2	3	1	2	3	2	3	1	12



# DOMESTIC SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2432	8751V	BBAVIA				BATTERY	CRACKED		4/13/98
	20075	8KCAB				RG35XC	CASE		98ZZZX1606
		CRACKED ON BOTH SIE N 20 HOURS SINCE NEV				M FACTORY SEAM DOW	N ALMOST TO BOTTOM. CRA	ACKS APPE	EAR EQUAL ON BOTH
2750	8638V	BBAVIA				CABLE	BROKEN		2/25/98
AW4R	16275	8GCBC				19023	LT FLAP		98ZZZX1560
	RIGHT WING ROC	OTS. THE LEFT CABLE	HAD BEEN REPLACE	ED (DUE TO BREAKIN	G AT THIS LOCATION	ON) APPROXIMATELY 800	HEY PASS OVER THE P/N 1- HOURS PREVIOUSLY IN 199 CH GROOVE DIA) PULLEY.		
2750	8638V	BBAVIA				CABLE	BROKEN		2/25/98
AW4R	16275	8GCBC				19023	RT FLAP		98ZZZX1561
****	RIGHT WING ROC	OTS. THE LEFT CABLE	HAD BEEN REPLACE	ED (DUE TO BREAKIN	G AT THIS LOCATION	ON) APPROXIMATELY 800	HEY PASS OVER THE P/N 1- HOURS PREVIOUSLY IN 199 CH GROOVE DIA) PULLEY.		
5210	113GW	BEECH				PIN	BROKEN	5802	10/4/96
	BB541	200BEECH			1014300301	1313232C15	CABIN DOOR HOOK		96ZZZX5366
		OUND FORWARD CAB JBRICATION OR NOT D			*		ID BROKEN IN HALF, FAILE	D. SUBMIT	TER SUGGESTS CAUSE
5510	6349C	BEECH				SPAR	CRACKED	3875	3/27/98
AKGR	M2371	C23			16962001603	16962000159	STABILATOR HINGE		98ZZZX1600
		LATOR MAIN SPAR AD CTION OF THIS AREA A			TTINGS AIRCRAFT	USED FOR FLIGHT TRAIN	ING. CRACK DUE TO FATIG	UE. SUBM	ITTER RECOMMENDEI
5511	6014F	BEECH				SPAR	CRACKED	6404	3/27/98
AKGR	M2107	C23			169620001603	16962000159	STAB HINGE ATT		98ZZZX1555
****		ILATOR MAIN SPAR AI DETAILED INSPECTION				RCRAFT USED FOR FLIGH	T TRAINING. CRACKS DUE	TO FATIGU	JE. SUBMITTER
5741	9546Q	BEECH				BOLT	CORRODED	1100	4/13/98
UE3R	LC231	65					LT WING PANEL		98ZZZX1581
	IN C/W AD 85-22-0 ATTACHMENT.	05, WING BOLT REJECT	ED DUE TO MINUTE	GALLING CORROSIO	ON SPOT IN THE INN	ER RADIUS. BOLT REMO	VED FROM THE LT LOWER	FORWARD	OUTER WING PANEL
2140	3812C	BEECH				SOLENOID	LEAKING	460	3/30/98
BF8R	ME390	76			B4500	44008	HEATER FUEL		98ZZZX1595
****		IEATER OPERATION FONED OVERBOARD. FUR					THE WIRING COMES OUT OF	F. FUEL PU	DDLED UP IN DRAIN
3211	301ER	BEECH				SUPPORT	CRACKED	2833	9/25/96
DYTR	LJ1286	C90A			901200602	9012006092	RT MLG OTBD		96ZZZX5364
****							O) WERE FOUND CRACKED : SHIP MAINTENANCE SHOP I		

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3211	301ER	BEECH				SUPPORT	CRACKED	2833	9/25/96
DYTR	LJ1286	C90A			901200602	9012006094	RT MLG INBD		96ZZZX5365
****							) WERE FOUND CRACKED 5 HIP MAINTENANCE SHOP F		
2510	8311J	CESSNA				MOUNT SCREW	MISSING		3/27/98
MOGR	15066211	150G			0413034200	S1021Z68	GLOVE BOX		98ZZZX1602
	SUPPORTS FORWA	ARD END OF GLOVE BO	OX. THIS HOLE WAS	PAINTED OVER SHO	WING SCREEN HAD	BEEN MISSING SINCE LA	ER CESSNA SB SB 68-16, THI ST REPAINT IN 1994. NOTE: ) HAD EVER BEEN C/W. NOT	AD 67-31-	04 REQUIRES
2810	8311J	CESSNA				STRAP	FAILED	3384	3/27/98
MOGR	15066211	150G				04265126	LT WING TANK		98ZZZX1604
	DURING ANNUAL	INSPECTION, FOUND I	LEFT FUEL TANK AFT	Γ MOUNTING STRAP	BROKEN. NOTIFIED	O OWNER.			
5412	8311J	CESSNA				FIREWALL	BUCKLED	3384	3/27/98
MOGR	15066211	150G			04530012	04531142	ENG MT AREA		98ZZZX1603
	FOUND FIREWALI	L BUCKLED HEAVILY A	ALL THE WAY ACRO	SS APPROXIMATELY	8 INCHES FROM BO	OTTOM. ALSO, BUCKLED	AT ALL ENGINE MOUNT LO	CATIONS.	NOTIFIED OWNER.
5412	8311J	CESSNA				ANGLE	FAILED	3384	3/27/98
MOGR	15066211	150G			04530012	04531073	FIREWALL LT FWD		98ZZZX1605
		REPAIR CONSISTED OF					DAMAGE EXTENDED FROM GE DISTANCE. NOTIFIED O		
3710	54413	CESSNA				HOSE	DETERIORATED	7211	3/1/98
	17274970	172P				B904	VACUUM SYSTEM		98ZZZX1554
****		I HOSE BELIEVED TO B NTERNAL HOSE MATEI			I LEAK. TROUBLESI	HOOTING, HOSE APPEARE	D OK UNTIL WIGGLED BY F	IAND. CR.	ACKS IN HOSE
5330	9557X	CESSNA				SKIN	CRACKED	2758	11/25/97
	18268553	182R				07133343	LT FORWARD		98ZZZX1557
	BOLT WAS THROU OUTER SKIN THRO	JGH THE SKIN AND TH OUGH THE BOLT HOLE	E BULKHEAD AT STA ABOUT 2 INCHES LO	A 1700. THE USE OF ONG. THE UPPER FO	THE STEP CAUSED T RWARD BOLT IS AT	THE BOLT TO BREAK THE	, LEFT AND RIGHT FORWAF FLANGE ON THE BULKHEA LY WITH AN OVERSIZED W TO BE USED.	D AND CA	USED A CRACK IN THE
5330	9557X	CESSNA				SKIN	CRACKED	2758	11/25/97
	18268553	182R				07133343	RT FORWARD		98ZZZX1558
	BOLT WAS THROU OUTER SKIN THRO	JGH THE SKIN AND TH DUGH THE BOLT HOLE	E BULKHEAD AT STA ABOUT 2 INCHES LO	A 1700. THE USE OF ONG. THE UPPER FO	THE STEP CAUSED T RWARD BOLT IS AT	THE BOLT TO BREAK THE	, LEFT AND RIGHT FORWAF FLANGE ON THE BULKHEA LY WITH AN OVERSIZED W TO BE USED.	D AND CA	USED A CRACK IN THE
7110	1198V	CESSNA		HARTZL		COWL	CHAFED		3/23/98
	U20602509	U206F		HCC3Y*			NOSE		98ZZZX1521
	AIRCRAFT KNOW						HIS IS A STC SA685AL INSTA ANCE IS .1250 INCH, BUT NE		

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7430	6265B	CESSNA			GERDES	SWITCH	DEFECTIVE	2957	4/2/98
	21062727	210M			A510	C2925010105	IGNITION		98ZZZX1599
		I, MODEL A-510. KEY ( VERY INSPECTION.	CAN BE REMOVED A	ND FALLS OUT IN AI	LL POSITIONS. RECO	OMMEND RE-PUBLISHING	WARNING FOR MECHANIC	S TO CHEC	K FOR THIS
3230	3038R	CESSNA				TORQUE TUBE	FAILED	12920	3/12/98
	320A0038	320A				081330046	NLG UPLOCK		98ZZZX1549
****		ON INSPECTION, FOUN		, -			EXTENDED AND LOCKED. N S HAVE .3125 INCH STUD). S		
2430	72324	CESSNA				DIODE	FAILED	1500	3/28/98
	33701561	337G					DC POWER SYSTEM		98ZZZX1598
	POWER DIODE FA	ILED CAUSING DAMA	GE TO: REGULATOR	, ALTERNATOR, AUT	OPILOT. RECOMMI	END REPLACING BOTH DI	ODES WITH HEAVIER DUTY	(HIGHER O	CAPACITY) DIODES.
3260	2681Y	CESSNA				ARM	FAILED	3000	3/25/98
	340A1530	340A				JE6	MLG SWITCH		98ZZZX1592
	ARM P/N JE6 ACTI CHECK LIST.	VATES GEAR DOWN N	MICROSWITCH. LEAF	F BROKE, UNSAFE GE	EAR CONDITION SIG	NALED, AIRCRAFT LANDI	ED WITHOUT INCIDENT AFT	TER COMPI	LETING 'UNSAFE GEAR
2750	911LD	CESSNA				BRACKET	CORRODED	5129	4/6/98
	414A0461	414A				51220465	LT FLAP PULLEY		98ZZZX1556
	OUTBOARD FLAP	BELLCRANK BRACKE	T BOLT HOLE IS COR	RRODED AND ELONG	ATED. BRACKET IS	NEAR EXHAUST SLIP STR	REAM AND POSSIBLE REASO	ON FOR TH	IS FAILURE.
2750	98QS	CESSNA				SWITCH	SHORTED		4/9/98
	S5500098	S550				602EN166	LT FLAP LIMIT		98ZZZX1539
	INTERNALLY SHO SYSTEM AFTER R	ORTED TO GROUND. IN	NSTALLED NEW SWI' FECTS. FLAP SYSTEM	TCH, P/N 602EN16-6, A M NOW OPERATING N	AND ADJUSTED ANI	O SAFETIED IAW CESSNA	NANCE FOUND FLAP LIMIT S550 MM. PERFORMED OPE M CH 27-51-OU FOR REMOVA	RATIONAL	CHECK OF FLAP
5210	26496	CESSNA				HINGE ASSY	CORRODED	4137	4/9/98
	5500607	550				551123516	CABIN DOOR		98ZZZX1543
	DAMAGE WOULD	NOT BE REMOVED W	ITHOUT COMPROMIS	SING THE HINGE INT	EGRITY. REASON F	OR CORROSION WAS LAC	E. THIS IS MADE OF MAGNE K OF LUBRICATION IN THE HE LUBE TO BE OVERLOOK	BEARINGS	S. THE LUBRICATION
2430	143Z	DHAV			GE	CIRCUIT BREAKER	FAILED		4/10/98
	437	DHC6300				12XRP12A1	BATTERY		98ZZZX1529
							TO 'ON'. BATTERY WOULD I		
3260	4708W	GULSTM				SWITCH	FAILED	1520	12/29/97
MCIR	13302	112TCA				ISE13	LT MLG DOWNLOCK		98ZZZX1552
	LEFT MLG DOWN RECOMMEND STU		TO CLOSE GIVING N	NO GEAR DOWN INDI	ICATION. FOUND SV	WITCH INOPERATIVE. REI	PLACED SWITCH. AIRCRAFT	Γ LANDED	WITHOUT INCIDENT.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2435	94TX	GULSTM			LUCAS	BEARING	FAILED		3/31/98
	5600247	560			23085004		LT START/GEN	594	98ZZZX1538
	STARTER/GENER		D BEARING WAS BEC	SINNING TO FAIL. TH			HER PROBLEM. INSPECTION VEVER, PIECES OF THE BEAL		
5541	560GL	GULSTM				RIB	CRACKED	1658	10/2/96
PAZR	5600079	560				5533110148	RUD INTERSPAR		96ZZZX5358
						RNAL DEFECTS NOTED. IN STALLED AND RUDDER E	NSPECTED WITH BORESCOP SALANCED.	E AND FOU	ND RIB WITH
5751	307CL	GULSTM				SPAR	CRACKED	5803	3/27/98
FTKR	11508	690B					RT AILERON		98ZZZX1541
****		ND AILERON SPARS CF FED TO TOTAL TIME.	RACKED. LOCATION	: INBOARD HINGE B	RACKET ATTACH P	OINT. LT AILERON HAD .	75 INCH CRACK. RT AILERO	N HAD 2.25	INCH CRACK. CAUS
5751	307CL	GULSTM				SPAR	CRACKED	5803	3/27/98
FTKR	11508	690B					LT AILERON		98ZZZX1540
		ND AILERON SPARS CF FED TO TOTAL TIME.	RACKED. LOCATION	: INBOARD HINGE B	RACKET ATTACH P	OINT. LT AILERON HAD .	75 INCH CRACK. RT AILERO	N HAD 2.25	INCH CRACK. CAUS
7120	47642	PIPER				BOLTS	LOOSE		4/8/98
	28R7703413	PA28R201T					ENGINE MOUNT		98ZZZX1596
		WER BOLTS THAT SEC REMOVED BOLTS, INSP				THE WAY TO BOLT SHOU	LDER, BUT LOOSE IN PART.	STILL HAI	O 'TORQUE SEAL'
8011	3091T	PIPER			PRESTOLITE	STARTER	FAILED		4/6/98
	28R7235312	PA28R200				MZ4222R	ENGINE		98ZZZX1594
	STARTER MOTOR FAILED.	ATTACHED WITH NO	N-'AN' HARDWARE T	O REDUCTION GEAR	ASSY. ALL NR 10 A	ATTACH HARDWARE SHE	ARED, MOTOR SEPARATED	FROM GEA	R ASSY. STARTER
7603	155CA	PIPER				CABLE	BROKE	7358	11/19/97
	31T7820024	PA31T					RT ENG THROTTLE		98ZZZX1546
	RIGHT THROTTLE	E CABLE BROKE DURIN	NG ENGINE POWER U	JP. PART TOTAL TIM	E: 7,358.0 HOURS.				
120	40PM	PIPER	CONT			MOUNT	CRACKED	1664	3/26/98
BONR	4608005	PA46310P	TSIO520BE			8401002	FIREWALL RT		98ZZZX1551
****		L INSPECTION, FOUND E POSITIONED SUCH T	ENGINE MOUNT CRA		CRACK IS LOCATED		C ACTUATOR ATTACHES TO	MOUNT. I	DESIGN REQUIRES

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2840	108W	BELL				FUEL FILTER	MALFUNCTION		3/7/96
	52034	206L				222366621103	BYPSSS SWITCH		HAI00000067
	AIRFRAME FUEL I	FILTER IMPENDING BY	PASS SWITCH MALF	FUNCTIONING. BYPA	ASS LIGHT COMES C	ON AND OFF WITH NO COM	NTAMINATION FOUND IN	FILTER. REPI	ACED WITH NEW
3213	108W	BELL				FITTING	WORN	1122	5/28/96
	52034	206L				206033108001	RT CROSSTUBE		HAI00000075
	FWD CROSS TUBE	E STRAP ASSY WORN II	NTO RIGHT FWD CRO	OSS TUBE FITTING. R	EPLACED FITTING I	PER PRODUCT SUPPORT V	VEAR LIMITS.		
3421	5012V	BELL				INDICATOR	FAILED		4/7/98
HEEA	45200	206L1				2360041902	COCKPIT		HEEA0013868
	ATTITUDE INDICA	ATOR BAD BEARINGS.							
3421	2777D	BELL				INDICATOR	FAILED		4/7/98
HEEA	45299	206L1				2360041902	COCKPIT		HEEA0013865
	ATTITUDE INDICA	ATOR BAD BEARINGS.							
3455	515KA	BELL				ANTENNA	FAILED		4/7/98
HEEA	51048	206L3				6223586001	ADF		HEEA0013870
	ADF IS UNRELIAB	LE.							
5350	53W	BELL				FAIRING	MIS MFG		2/1/96
GJQR	3587	206B3				206020114131S	FUSELAGE		HAIGJQR0063
	THIS FAIRING WA	AS ORDERED FROM BE	LL - BUT IT DOESN'T	FIT - IT IS ONE-HALF	INCH SHORT.				
6220	86W	BELL				ARM	STICKING	350	12/20/95
GJQR	4142	206B3				206011139001	M/R		HAIGJQR0061
	ARM STARTED ST	TICKING IN FLIGHT PO	SITION AFTER SHUT	ΓING DOWN AIRCRA	FT. AFTER REPEAT	ED ATTEMPTS TO FREE U	P ARM, REPLACED IT WIT	H CSF STOCK	
6230	404W	BELL				BEARING	CORRODED	980	11/17/95
GJQR	52055	206L				206010443001	M/R MAST		HAIGJQR0053
	FEELS ROUGH & I	HAS SURFACE CORROS	SION REPLACED WIT	H CSF STOCK.					
6230	404W	BELL				BEARING	WORN	980	11/17/95
GJQR	52055	206L				206010459001	SWASHPLATE		HAIGJQR0054
	BEARING WORN &	& ROTATION. REPLACI	ED WITH CSF STOCK.	•					
6230	404W	BELL				BEARING	WORN	980	11/17/95
GJQR	52055	206L				206010441001	SWASHPLATE		HAIGJQR0055
	BEARING WORN I	REPLACED WITH CSF S	тоск.						
6240	2759U	BELL				INDICATOR	FAILED		4/7/98
HEEA	45272	206L1				2360016901	ROTOR		HEEA0013866
	BEARINGS EXCES	SIVELY NOISY.							

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6310	345RR	BELL				SEAL	WORN		3/7/96
	2107`	206B				289051098	ENG/XMSN		HAI00000068
		CESSIVELY. CUSTOM GO RAWHIDE SEALS V					AL SEEM TO WEAR DEEPE	R GROOVES	AT A FASTER RATE
6320	108W	BELL				INDICATOR	DEFECTIVE	1526	5/28/96
	52034	206L				206040810103	TRANSMISSION		HAI00000076
	DURING 1500 TRA	NSMISSION SUN GEAR	INSPECTION COMP	LETED TB206L-95-183	PER BULLETIN. RI	EPLACED WITH NEW PAR	T FROM BHT		
5320	108W	BELL				INDICATOR	FAILED	1344	2/1/96
GJQR	52034	206L				206075678107	XMSN TEMP		HAIGJQR0064
	INDICATOR IS ER	RATIC - WILL NOT REA	D ABOVE 50 DEGREE	E - DROPS TO ZERO I	DURING FLIGHT, UNI	RELIABLE. REPLACED W	TH NEW INDICATOR FROM	M BELL.	
320	97PM	BELL				THERMOSWITCH	SHORTED	81	10/24/97
GJQR	52187	206L				214040805001	M/R GR BOX		HAIGJQR0148
	SHORTED - KEEPS	S LIGHT ON. REPLACED	WITH NEW PART F	OM CSF.					
410	96NW	BELL				BLADE	DEBONDED	264	12/4/96
JQR	4389	206B				206016201131	T/R		HAIGJQR0100
	BLADE REPLACE WITH CSF STOCK		TECTED DURING POS	T FLIGHT. BLADE M	IAKES CLICKING SO	UND AND DELAMINATIO	ON PRESENT AT BLADE RO	OT DOUBLE	R AREA. REPLACED
5410	108W	BELL				BEARING	DEFECTIVE	863	5/28/96
	52034	206L				206310105101	T/R BLADE		HAI00000080
		RING IN T/R BLADE TO EPLACED WITH NEW B			LIGNMENT WOULD	NOT MEET THE DIMENS	IONAL REQUIREMENT DU	E TO THE AX	IIAL PLAY IN THE
5410	108W	BELL				SLEEVE	DEFECTIVE	863	5/28/96
	52034	206L				206010733003	T/R BLADE		HAI00000081
		IN T/R BLADE TO W/C CED WITH NEW STOCK		PT.I. BLADE ALIGH	NMENT WOULD NO	Γ MEET THE DIMENSIONA	AL REQUIREMENT DUE TO	THE AXIAL	PAY IN THE NEW
510	404W	BELL				DISC PAC	WORN	980	11/17/95
TIOD	52055	206L				406040340101	T/R DRIVE		HAIGJQR0056
лVк		200L				400040340101	1/10 111 1 11		
иQк	DISC PAC REPLAC	CEMENT DUE TO EXCE	SSIVE GAP. REPLACE	D WITH CSF STOCK.		400040340101	1,11,211,12		
	DISC PAC REPLAC		SSIVE GAP. REPLACE	D WITH CSF STOCK.		FILTER HOUSING	LEAKS	2	6/17/97
7920		CEMENT DUE TO EXCE	SSIVE GAP. REPLACE	D WITH CSF STOCK.				2	6/17/97 HAIGJQR0134
920	97PM	CEMENT DUE TO EXCE BELL 206L	SSIVE GAP. REPLACE	D WITH CSF STOCK.		FILTER HOUSING	LEAKS	2	
920 GJQR	97PM 52187	CEMENT DUE TO EXCE BELL 206L	SSIVE GAP. REPLACE	D WITH CSF STOCK.		FILTER HOUSING	LEAKS	2 59	
7920 GJQR 7920	97PM 52187 FILTER HOUSING	CEMENT DUE TO EXCE BELL 206L OIL LEAKS	SSIVE GAP. REPLACE	D WITH CSF STOCK.		FILTER HOUSING 206040525101	LEAKS OIL SYS		HAIGJQR0134
7920 GJQR 7920	97PM 52187 FILTER HOUSING 97PM	DEMENT DUE TO EXCE BELL 206L OIL LEAKS BELL 206L	SSIVE GAP. REPLACE	D WITH CSF STOCK.		FILTER HOUSING 206040525101 FILTER HOUSING	LEAKS OIL SYS LEAKS		HAIGJQR0134 6/17/97
7920 GJQR 7920 GJQR	97PM 52187 FILTER HOUSING 97PM 52187	DEMENT DUE TO EXCE BELL 206L OIL LEAKS BELL 206L	SSIVE GAP. REPLACE	D WITH CSF STOCK.		FILTER HOUSING 206040525101 FILTER HOUSING	LEAKS OIL SYS LEAKS		HAIGJQR0134 6/17/97
7920 GJQR 7920 GJQR GJQR 7920 GJQR	97PM 52187 FILTER HOUSING 97PM 52187 FILTER HOUSING	CEMENT DUE TO EXCE BELL 206L OIL LEAKS BELL 206L OIL LEAKS	SSIVE GAP. REPLACE	D WITH CSF STOCK.		FILTER HOUSING 206040525101 FILTER HOUSING 206040525101	LEAKS OIL SYS  LEAKS OIL SYS	59	HAIGJQR0134 6/17/97 HAIGJQR0133

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2915	98W	BELL				VALVE	FAILED	138	2/24/97
GJQR	35100	212				212076006105	HYD SYS		HAIGJQR0106
	VALVE TRIPS THE FROM BELL HELI		GGED INDICATOR W	HEN POWER IS APPL	LIED. INDICATORS (	ON FILTER ASSY. DO NOT	TRIP. FILTERS ARE CLEA	AN. REPLACE	D WITH NEW UNIT
3040	98W	BELL				MOTOR	MIS MARKED		1/21/98
GJQR	35100	212				204070907101	WIPER		HAIGJQR0166
	ORDERED 204-070	0-907-001, RH MOTOR, A	AND RECEIVED 204-07	70-907-101 WHICH IS	A LH MOTOR. SUB	MITTER THINKS THIS HAS	BEEN MISMARKED.		
3040	98W	BELL				WIPER ASSY	FAILED	177	2/24/97
GJQR	35100	212				204070907011	WINDSHIELD		HAIGJQR0107
	WIPER ASSY. BRO	KEN AT OUTBOARD P	IVOT PIN. REPLACED	WITH NEW UNIT FR	OM BELL HELICOP	ΓER.			
3150	8530F	BELL				CAUTION PANEL	FAILED		4/3/98
LS1R	30920	212				209075325045	INST PANEL	228	98ZZZX1530
	INTERMITTENTLY	Y COMPLETELY CUT O	FF AND WILL NOT LI	GHT MASTER CAUT	ION. UNIT REMOVE	ED AND SENT FOR OVERH	AUL. SUBMITTER CONTI	ROL NR 98-4-1	
5610	98W	BELL				WINDSHIELD	DAMAGED	177	3/24/97
GJQR	35100	212				212030464001	COCKPIT		HAIGJQR0110
	WINDSHIELD WA	S DEEPLY SCRATCHEI	D BY WIPER ASSY. TH	AT BROKE DURING	FLIGHT. REPLACED	WITH NEW WINDSHIELD			
5210	98W	BELL				BLADE	DAMAGED		4/10/98
GJQR	35100	212				206015001107	M/R		HAIGJQR0180
	RECEIVED NEW B	BLADE FROM BHT - DA	MAGED. REPLACED V	WITH NEW BLADE FI	ROM BHT				
6210	98W	BELL				BLADE	PEELING	138	3/24/97
GJQR	35100	212				212015501115	M/R		HAIGJQR0111
	LARGE PATCHES	OF PAINT PEELING FR	OM BLADES.						
6310	98W	BELL				COUPLING	PITTED	782	4/10/98
GJQR	35100	212				212040688003S	ENG/XMSN		HAIGJQR0187
	PITTING BEYOND	LIMITS. REPLACED W	TITH NEW PART FROM	<b>И</b> ВНТ					
5310	98W	BELL				COUPLING	PITTED	782	4/10/98
GJQR	35100	212				212040687001	M/R		HAIGJQR0186
	PITTING BEYOND	LIMITS. REPLACED W	TITH NEW PART FROM	<b>И</b> ВНТ					
6320	98W	BELL				CHIP DETECTOR	DEFECTIVE	472	12/31/97
GJQR	35100	212				B3703	XMSN		HAIGJQR0158
	NO GROUNDING I	POINTS THROUGH LOC	CKING PINS & CASE. I	REPLACED WITH NEV	W PART FROM BHT				
5320	98W	BELL				SEAL	LEAKING	376	10/24/97
GJQR	35100	212				412040111105	INPUT PINNION		HAIGJQR0147
-		N UNACCEPTABLE AM	OUNT OF OIL. REPLA	CED WITH NEW SEA	L FROM BHT.				~
6710	98W	BELL				UNIVERSAL	ROUGH	782	4/10/98
GJQR	35100	212				412076620101	COLLECTIVE		HAIGJQR0182
٧			ID WITH RI ACK SUR	STANCE COMING OF	TOFIT REDIACED	WITH NEW PART FROM E			

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6710	98W	BELL				UNIVERSAL	ROUGH	782	4/10/98
GJQR	35100	212				412076620101	COLLECTIVE		HAIGJQR0183
	BEARING FEELS C	RAVELLY ON ON END	WITH BLACK SUBST	TANCE COMING OUT	. REPLACED WITH I	NEW PART FROM BHT.			
7210	98W	BELL	PWA			RING	CORRODED	782	4/10/98
GJQR	35100	212	PT6T3			M274263215B	GR BOX		HAIGJQR0184
	RETAINING RING	CORRODED REPLACE	O WITH NEW PARTS	FROM BHT					
7714	8530F	BELL				INDICATOR	FAILED		4/3/98
LS1R	30920	212				212070108007	NR 2 ENG TACH	783	98ZZZX1533
	NR 2 ENGINE TAC	H NEEDLE STICKS AT	80 PERCENT. UNIT R	EMOVED AND SENT	FOR OVERHAUL. S	UBMITTER CONTROL NR	98-4-2.		
7931	8530F	BELL				INDICATOR	FAILED	496	4/3/98
LS1R	30920	212				209070262	OIL PRESS/TEMP		98ZZZX1532
	ENGINE OIL PRES	SURE INDICATOR REA	DS ABOVE RED LINE	E AND READS 40 PSI V	WITH POWER OFF. I	REMOVED AND SENT FOR	OVERHAUL. SUBMITTER	CONTROL N	TR 98-4-3.
7931	98W	BELL				TRANSMITTER	FAILED	161	2/24/97
GJQR	35100	212				1300203	OIL PRESS		HAIGJQR0108
	NO PRESSURE IND	DICATION ON GAUGE V	VITH 80 PSI SYSTEM	PRESSURE. REPLACE	ED WITH NEW UNIT	FROM BELL HELICOPTER	RS		
7931	98W	BELL				TRANSMITTER	FAILED	183	2/24/97
GJQR	35100	212				1300205	OIL PRESS		HAIGJQR0109
	PRESSURE GAUGE	E INDICATES 0 PSI WIT	H ENGINE RUNNING	& 75PSI SYSTEM PRI	ESSURE. REPLACED	WITH NEW UNIT FROM B	ELL HELICOPTER.		
7931	98W	BELL				TRANSMITTER	FAILED	579	4/10/98
GJQR	35100	212				APTE138A100G	OIL SYS		HAIGJQR0181
	TRANSMITTER IN	OP.							
2435	59806	BELL				STARTER	FAILED	23	4/7/98
HEEA	28140	214ST				214060056103	START/GEN		HEEA0013862
	START KICKS OFF	AND DISENGAGES.							
2842	59805	BELL				PROBE	FAILED		4/7/98
HEEA	28141	214ST				214066212107	FUEL SYS		HEEA0013871
	PROBE WILL NOT	TEST.							
3120	8045T	BELL				CLOCK	FAILED		4/7/98
HEEA	28101	214ST				212075514001	COCKPIT		HEEA0013863
	CLOCK INOPERAT	TIVE.							
3414		BELL				INDICATOR	DEFECTIVE		4/6/98
HEEA		214ST				214175299105	COCKPIT		HEEA0013849
	AIRSPEED INDICA	TOR NEEDS TO BE BE	NCH CHECKED AND	CERTIFIED. (PER AS	B 214ST-97-79) SERI	AL NUMBERS REMOVED	ARE 230241 AND 230259.		
3414	6957Y	BELL				INDICATOR	DEFECTIVE		4/6/98
HEEA	28139	214ST				214175299105	COCKPIT		HEEA0013850
	AIRSPEED INDICA	TOR NEEDS TO BE BE	NCH CHECKED AND	CERTIFIED. (PER AS	B 214ST-97-79) SERI	AL NUMBERS REMOVED	ARE 230245 AND 230242.		

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3414	59806	BELL				INDICATOR	DEFECTIVE		4/6/98
HEEA	28140	214ST				214175299105	COCKPIT		HEEA0013851
	AIRSPEED INDICA	ATOR NEEDS TO BE BE	NCH CHECKED AND	CERTIFIED. (PER AS	B 214ST-97-79)				
6230	3897N	BELL				TRANSMISSION	MAKING METAL	7120	4/8/98
HEEA	28106	214ST				214040003105	M/R MAST		HEEA0013873
	M/R MAST ASSY I	IAS METAL IN OIL.							
6230	3897N	BELL				SWASHPLATE	LOOSE	385	4/6/98
HEEA	28106	214ST				214010500117	M/R		HEEA0013860
	SWASHPLATE LO	OSE SLEEVE NUT.							
5220	141MA	BELL				CONE SET	DEFECTIVE	1235	4/8/98
HEEA	53016	407				407010111101	M/R		HEEA0013875
	CONE SET TEFLO	N LINER COMING OFF.							
5220	407MM	BELL				HUB	WORN	1234	4/6/98
HEEA	53060	407				407010100103	M/R		HEEA0013856
		406-010-108-109, S/N A REMENT. PARTS AND				TIREMENT. 1 EACH LOWE	ER CONE SEAT P/N 407-010	-107-101, S/N	A80 (TOTAL TIME
5230	417PH	BELL				GIMBAL RING	WORN	1168	4/8/98
HEEA	53038	407				406010427109	M/R		HEEA0013876
	EXCESSIVE PLAY	ON AIRCRAFT AND W	ORN BUSHINGS.						
5230	417PH	BELL				HUB SET	WORN	1168	4/8/98
HEEA	53038	407				406010428109	M/R		HEEA0013877
	EXCESSIVE PLAY	ON AIRCRAFT AND W	ORN BUSHINGS.						
6230	417PH	BELL				LEVER ASSEMBLY	WORN	1168	4/8/98
HEEA	53038	407				406010425107	M/R		HEEA0013878
	EXCESSIVE PLAY	ON AIRCRAFT AND W	ORN BUSHINGS.						
5230	417PH	BELL				LEVER ASSEMBLY	WORN	1168	4/8/98
HEEA	53038	407				406010425107	M/R		HEEA0013879
	EXCESSIVE PLAY	ON AIRCRAFT AND W	ORN BUSHINGS.						
5230	417PH	BELL				LINK ASSEMBLY	WORN	1168	4/8/98
HEEA	53038	407				406010426101	M/R		HEEA0013880
	EXCESSIVE PLAY	ON AIRCRAFT AND W	ORN BUSHINGS.						
5230	417PH	BELL				LINK ASSEMBLY	WORN	1168	4/8/98
HEEA	53038	407				406010426101	M/R		HEEA0013881
	EXCESSIVE PLAY	ON AIRCRAFT AND W	ORN BUSHINGS.						
6310	417PH	BELL				FREEWHEEL UNIT	LEAKING	1283	4/6/98
HEEA	53038	407				406040500125	SEALS		HEEA0013852
		AND WORN SEAL SLEE 0514582. REPLACEMEN					5-340-102-101 RECEIVED ON	N 3-11-98 AG	AINST OUR PO#407-

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6310	1167G	BELL				FREEWHEEL UNIT	LEAKING	564	4/6/98
HEEA	53067	407				406040500123	SEAL		HEEA0013857
	FREEWHEEL UNIT	FORWARD SEAL LEAD	KING.						
6420	467PH	BELL				BEARING	WORN	183	4/6/98
HEEA	53142	407			407012101105	406312100101	T/R		HEEA0013854
	BEARINGS WORN	SCRAPPED BEARINGS	l.						
6500	447PH	BELL				BEARING	ROUGH		4/6/98
HEEA	53114	407			406040320101	406040339111	T/R		HEEA0013853
	ROUGH BEARING	S. SERIAL NUMBERS R	EMOVED ARE K97-0	737 AND A98-0536.					
6500	406PH	BELL				BEARING	ROUGH	288	4/6/98
HEEA	53198	407			407040303101	406040339105	T/R		HEEA0013855
	ROUGH BEARING	S. SERIAL NUMBERS R	EMOVED ARE C97-2	195 AND C97-2206. PA	ARTS AND LABOR W	TLL BE INVOICEDWO#9	800152-99.		
6520	427PH	BELL				GEARBOX	LEAKING	1111	4/6/98
HEEA	53059	407				406040400115	T/R		HEEA0013861
	INPUT AND OUTP	UT SEALS LEAKING.							
3421	3893L	BELL				INDICATOR	FAILED		4/7/98
HEEA	33006	412				2360041902	COCKPIT		HEEA0013867
	ATTITUDE INDICA	ATOR BAD BEARINGS.							
3425	2298Z	BELL				INDICATOR	FAILED		4/7/98
HEEA	33077	412				1113025	HSI		HEEA0013872
	HSI INDICATOR D	OES NOT INDICATE PR	OPERLY.						
2840	203LF	BOLKMS				TRANSMITTER	ERRATIC	208	3/16/98
R7MA	2015	BO105LSA3				DK042			98ZZZX1576
	FUEL PRESSURE T	RANSMITTER IS ERRA	TIC. REPLACED WIT	H NEW UNIT, CORRE	ECTED PROBLEM.				
6420	202LF	BOLKMS				BEARING	WORN	367	12/2/97
R7MA	2014	BO105LSA3				1053170023	T/R		98ZZZX1571
	BEARING WORN I	BEYOND SERVICEABLE	E LIMITS. REPLACED	WITH NEW UNIT, CO	ORRECTED PROBLE	M.			
6420	203LF	BOLKMS				BEARING	WORN	219	1/8/98
R7MA	2015	BO105LSA3				1053170023	T/R		98ZZZX1573
	TAIL ROTOR BEA	RING WORN BEYOND S	SERVICEABLE LIMIT	S. REPLACED WITH	2 EACH NEW UNITS	, CORRECTED PROBLEM.			
7120	202LF	BOLKMS				BUSHING	WORN	305	11/22/97
R7MA	2014	BO105LSA3				10560387	ENGINE MOUNT		98ZZZX1578
	ENGINE MOUNT E	SUSHING'S ELASTOME	RICS WORN BEYOND	SERVICEABLE LIMI	TS. REPLACED WIT	H NEW UNIT, CORRECTEI	O PROBLEM.		
7120	202LF	BOLKMS				BUSHING	WORN	433	2/16/98
R7MA	2014	BO105LSA3				10560387	ENGINE MOUNT		98ZZZX1577
	ENGINE MOUNT F	SUSHING'S ELASTOME	RICS WORN BEYOND	SERVICEABLE LIMI	TS. REPLACED WIT	H NEW UNIT, CORRECTEI	D PROBLEM.		

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7931	202LF	BOLKMS				SWITCH	FAILED	36	11/30/97
R7MA	2014	BO105LSA3				6607A2114	OIL PRESS WARN		98ZZZX1572
	OIL PRESSURE WA	ARNING SWITCH INOP	ERATIVE. LOW PRES	SURE LIGHT 'ON' IN-	FLIGHT AND AT GR	OUND IDLE. REPLACED	WITH NEW UNIT, CORRECT	ED PROBLE	M.
7931	203LF	BOLKMS				SWITCH	FAILED	134	2/26/98
R7MA	2015	BO105LSA3				6607A2114	OIL PRESS WARN		98ZZZX1574
	OIL PRESSURE WA PROBLEM.	ARNING SWITCH HAS I	ERRATIC OPERATION	I. CAUSES LOW PRE	SSURE WARNING LI	GHT AT 100 PERCENT NR	FLAT PITCH. REPLACED V	VITH NEW U	NIT, CORRECTED
7931	203LF	BOLKMS				SWITCH	FAILED	450	1/5/98
R7MA	2015	BO105LSA3				6607A2114	OIL PRESS WARN		98ZZZX1575
	OIL PRESSURE WA	ARNING SWITCH UNIT	IS INOPERATIVE. IN	TERMITTENTLY LIG	HT GOES 'ON' THEN	'OFF' DURING FLIGHT. R	EPLACED WITH NEW UNIT	, CORRECTE	ED PROBLEM.
2330	911RZ	BOLKMS				AUDIO CONTROL	FAILED		4/7/98
HEEA	7092	BK117A4				ACS1278	COCKPIT		HEEA0013864
	AUDIO CONTROL	INTERNAL LIGHTING	INOPERATIVE.						
2340	911RZ	BOLKMS				AUDIO CONTROL	NOISY		4/7/98
HEEA	7092	BK117A4				ACS775SL	COCKPIT		HEEA0013869
	ICS HAD LOUD ST	ATIC WHEN ON.							
6220	900LF	DOUG				DROOP STOP	CRACKED	778	4/9/98
EGRA	90000022	MD900				900R2100001103	M/R HEAD		98ZZZX1613
****	POINT SECURING		OTOR HEAD. IF DRO	OP STOP SUPPORT W	ERE TO DEPART AII		RACKED COMPLETELY THI LADE WOULD CONTACT TA		
2841	1097J	HUGHES				INDICATOR	FAILED		4/8/98
LS1R	900801D	369D				369D29630521	FUEL QUANTITY		98ZZZX1531
	FUEL GAUGE INT	ERMITTENT AND CHA	NGES WHEN GENERA	TOR TURNED ON. U	INIT REMOVED ANI	SENT FOR REPAIR. SUB	MITTER CONTROL NR 98-4	-4.	
7200	129NH	SKRSKY	PWA			ENGINE	STALLS	10638	8/7/96
NYBA	58855	S58ET	PT6T6		3024700		COMPRESSOR	1722	96ZZZX4781
							MECHANIC NOTED COMPRE W S58T MM AND SHIPPED T		
6220	350BA	SNIAS				BALL JOINT	WORN	268	3/17/98
FF6R	2788	AS350BA				117775P	M/R HEAD		98ZZZX1534
	BALL JOINT WOU	LD NOT PASS WEAR C	RITERIA PER MWC. F	REPLACED 3 EACH.					
6410	31AS	SNIAS				BEARING SET	DELAMINATION	493	10/17/97
VY1R	2689	AS350B2				355A09103601	T/R		98ZZZX1579
	BEARING REMOV	ED DUE TO DELAMINA	ATION IN EXCESS OF	LIMITS. REPLACED	WITH NEW PART.				
6420	40466	SNIAS				BEARING	SEPARATION	543	4/8/98
HEEA	3004	AS350B2			355A12004008	579063	T/R HEAD		HEEA0013874
	RUBBER SEPARA	ΓΙΟΝ.							

DOMESTIC SEDVICE	E DIFFICULTY REPORT	CIMMADV III	I ICODTED C (contid)
	DIFFICULT I NEFUNT	SUMMAN I - HI	SLICOF LENS (COILU)

DOMESTI	DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS (cont'd)  4/19/98 To 4/25/98 ISSUE: 98-17 ZAC-327										
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO		
6520	6520 31AS SNIAS BEARING DELAMIANTED 493 10/17/97										
VY1R	VY1R 2689 AS350B2 350A33215300 T/R 98ZZZX1580										
	BEARING REMOVED DUE TO DELAMINATION IN EXCESS OF LIMITS. REPLACED WITH NEW PART.										
(End of DO	MESTIC SERVICE	DIFFICULTY REPOR	Γ SUMMARY - HE	LICOPTERS)							

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
7210	98W	BELL	PWA			RING	CORRODED	782	4/10/98
GJQR	35100	212	PT6T3			M274263215B	GR BOX		HAIGJQR0184
	RETAINING RING	CORRODED REPLACE	D WITH NEW PARTS	FROM BHT					
8530	714TG	CESSNA	LYC			CYLINDERS	CRACKED	1578	4/14/98
	15279415	152	O235L2C			SLC10311	ENGINE		98ZZZX1597
	AND CRACKS WE		ATELY 1.25 INCHES I	OOWN FROM THE BA			CYLINDERS WERE REMOVE IPPER SURFACE (PUSH ROD		
7414	269CJ	CESSNA	LYC		SLICK	MAGNETO	FAILED	45	3/1/98
	17259512	172L	O320E2D			4771	ENG LT MAG		98ZZZX1593
	WITH THE ENGIN UNISON, THEY SE THE UNSERVICEA	E RUNNING AND THE I INT A NEW MAG AND S IBLE MAG WAS RETUR	MAG SWITCH IN THE SUGGESTED CHANGE RNED TO UNISON.	E LEFT POSITION, TH	E ENGINE QUIT. OF	PERATION WAS NORMAL I ONE WITH A NEW MAG, T	CTRONIC IGNITION SYSTEM IN RIGHT MAG OR BOTH PO HE OPERATIONAL CHECK C	SITIONS. A OF THE SYS	FTER CONTACTING FEM WAS NORMAL.
8520	2773V	CESSNA	LYC			CRANKCASE	CRACKED	3900	4/10/98
	177RG0694	177RG	IO360A1B6			11B200511DL	NR 2 CYLINDER	1300	98ZZZX1548
		CIRCUMFERENCE OF (					CH BELOW BOTTOM FLANG ROM FORWARD LEFT SIDE		
8530	21477	CESSNA	CONT			ROCKER BOSS	FAILED	2766	3/23/98
	18261657	182P	O470R				NR 2 CYL EXHAUST	1315	98ZZZX1544
		- ,					COVER HAD A 1 INCH HOLI H ROD WAS NOT BENT. OLI		MOVED VALVE COVER
8520	5388J	CESSNA	CONT			BOLT	FAILED		3/1/98
GNBA	4040666	404	GTSIO520M			537750	NR 6 INT ROCKER	1113	98ZZZX1553
****					,	,	AMOUNT OF OIL STREAMI BOLT, GROUND CHECK OK.	NG BACK. 1	PILOT RETURNED TO
7261	245CC	CESSNA	PWA			OIL PUMP	WEAK		9/30/96
FRKA	550212	550	JT15D4			3030391	LT ENG SCAV	3241	96ZZZX5353
		OWED EVIDENCE OF HI			TING REVEALED W	EAK SCAVENGE OIL PUMI	P. OIL PUMP WAS REMOVE	O AND REPI	LACED WITH
7210	76WA	GULSTM	GARRTT			TRANSFER TUBE	BROKEN		1/26/98
HAXR	11342	690A	TPE3315251K				NOSE CASE OIL		98ZZZX1612
							NOSE CASE, FOUND OIL TR. FER GEARBOX INSPECTION.		BE BROKEN OFF,
8550	7255L	GULSTM	LYC			OIL PUMP	WRONG GEARS		3/1/98
	AA1A0455	AA1A	O235C2C				ENGINE OIL		98ZZZX1518
	STORED. TT 697.4		INE INSTALLED IN N	7255L. AD 81-18-04R	2. SIGNED OFF ON	AD LIST AS DUE AT $2,000$	NO DETAILS GIVEN. 6-30-79 HRS OR OVERHAUL. IN C/V		

	DOMESTIC S	SERVICE DIFFICUL	TY REPORT SUMMARY	- ENGINES (cont'd)
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<b>DOMESTI</b>												
ATA OPER				_	0 0 1 1 1 1 1 1							
7310	191ER	MOONEY	LYC			TUBE ASSY	BROKEN		4/1/98			
	243252	M20J	IO360A3B6			LW120980140	NR 1 CYLINDER		98ZZZX1590			
							WAS BROKEN AT THE CYLII ATION (NR 1 CYL). AD 93-02-					
8520	4108D	PIPER	LYC			STUD	FAILED	5145	3/20/98			
	318352018	PA31350	LTIO540J2BD				NR 4 CYLINDER		98ZZZX1520			
						KEN, FUEL INJECTOR LIN 5 THROUGH STUD, P/N 762	E AND EXHAUST PIPE BROK 220.	EN, AND	CASE CRACKED.			
8520	4108D	PIPER	LYC			STUD	FAILED	3713	3/6/98			
	318352018	PA31350	TIO540J2BD				NR 1 CYLINDER		98ZZZX1519			
	95.3 HOURS SINCE O	OVERHAUL: PILOT RE	PORTED ROUGH RUN	NING ENGINE. INSI	PECTION SHOWED N	R 1 CYLINDER, 2 EACH, TO	OP CYLINDER STUDS AND, 2	EACH, A	FT STUDS BROKEN.			

(End of DOMESTIC SERVICE DIFFICULTY REPORT SUMMARY - ENGINES)

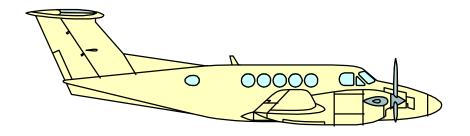
FUEL INJECTOR LINE BROKEN, INTAKE TUBE DAMAGED. .3750 INCH STUDS, P/N 38-13. .50 INCH STUDS, P/N 50-15.

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	DIFF. DATE OPER CONT NO
3421	5012V	BELL				INDICATOR	FAILED	4/7/98
HEEA	45200	206L1				2360041902	COCKPIT	HEEA0013868
	ATTITUDE INDICA	ATOR BAD BEARINGS.						
3421	2777D	BELL				INDICATOR	FAILED	4/7/98
HEEA	45299	206L1				2360041902	COCKPIT	HEEA0013865
	ATTITUDE INDICA	ATOR BAD BEARINGS.						
3455	515KA	BELL				ANTENNA	FAILED	4/7/98
HEEA	51048	206L3				6223586001	ADF	HEEA0013870
	ADF IS UNRELIAB	LE.						
3421	3893L	BELL				INDICATOR	FAILED	4/7/98
HEEA	33006	412				2360041902	COCKPIT	HEEA0013867
	ATTITUDE INDICA	ATOR BAD BEARINGS.						
3425	2298Z	BELL				INDICATOR	FAILED	4/7/98
HEEA	33077	412				1113025	HSI	HEEA0013872
	HSI INDICATOR D	OES NOT INDICATE PR	OPERLY.					
2330	911RZ	BOLKMS				AUDIO CONTROL	FAILED	4/7/98
HEEA	7092	BK117A4				ACS1278	COCKPIT	HEEA0013864
	AUDIO CONTROL	INTERNAL LIGHTING	NOPERATIVE.					
2340	911RZ	BOLKMS				AUDIO CONTROL	NOISY	4/7/98
HEEA	7092	BK117A4				ACS775SL	COCKPIT	HEEA0013869
	ICS HAD LOUD ST	ATIC WHEN ON.						
6113	38581	PIPER		SNSNCH		BULKHEAD	CRACKED	3/31/98
	287716270	PA28161		74DM		87325	PROP SPINNER	98ZZZX1550
	PROPELLER SPINI	NER FRONT BULKHEAD	CRACKED, TWO PL	ACES.				
(End of DO	MESTIC SERVICE	DIFFICULTY REPOR	T SUMMARY - CO	MPONENTS)				

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
6114	2256L	AYRES		HARTZL		PILOT TUBE	DISPLACED	512	4/3/98
	T34232	S2RT34NORMAL		HCB3TN3		A1891A	PROP HUB		98ZZZX1610
	BROKEN SCREW I LOOK LIKE THEY	IN ANOTHER LINK PIN	UNIT. AFTER DISAS . THE PILOT TUBE D	SEMBLY, A PILOT TO DID NOT HAVE ENOU	JBE WAS FOUND O	UT OF POSITION. PROP HU	FOUND CORROSION ON AL JB WAS SENT BACK TO FAC TTER STATED MANUFACTU	CTORY FOR	REPAIR. SCREWS
6114	23NC	CESSNA		MCAULY		HUB	CRACKED		4/9/98
LU4R	402B0419	402B		3AF32C87			NR 1 SOCKET		98ZZZX1547
	BLADE SOCKET N	IR 1 HAS AN EDDY CUR	RENT INDICATION I	N EXCESS OF MANU	FACTURER'S SPECS				
6111		GULSTM		HARTZL		BLADE	CRACKED		4/9/98
RV3R		500B		HCA3VK2			V-GROOVE		98ZZZX1537
	PROPELLER BLAI	DE INSPECTION FOUND	CRACK IN V-GROOV	E ON SHANK.					
6111		GULSTM		HARTZL		BLADE	CRACKED		4/8/98
RV3R		500B		HCA3VK2			V-GROOVE		98ZZZX1536
	PROPELLER BLAI	DE INSPECTION FOUND	CRACK IN V-GROOV	E ON SHANK.					
6111		GULSTM		HARTZL		BLADE	CRACKED		3/5/98
RV3R		500B		HCA3VK2			V-GROOVE		98ZZZX1535
	PROPELLER BLAI	DE INSPECTION FOUND	CRACK IN V-GROOV	E ON SHANK.					
6110	7327F	PIPER		MCAULY		BLADE CONTROL	FAILED	38	4/2/98
	2825236	PA28140		D3A34C402			PROP NR 2 BLADE		98ZZZX1601
		INSPECTION, DISCOVE ANISM MAY BE BROKE		,	. ,		NGLES. MCCAULEY SUSPE	CTS A LINK	OR THE PROP
(End of DO	MESTIC SERVICE	DIFFICULTY REPOR	T SUMMARY - PRO	OPELLERS)				-	



# INTERNATIONAL SERVICE DIFFICULTY REPORT



ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3220		AMTRMX				SPRING	BROKEN		1/23/96
		XP503					TAIL WHEEL		AU960248
	(AUS) TAIL WHEEI	SPRING FAILED DUR	ING LANDING - THIS	DEFECT WAS RECE	IVED FROM THE AU	F AND IS FOR INFORMAT	ION ONLY		
711		AYRES			AYRES	SPAR	CRACKED	6044	5/20/93
		S2*				22343L	LT RT WING		CA930708302
	(CAN) CRACKS FO	UND IN BOTH LT AND	RT WING SPARS. A	YRES SERVICE KIT S	2R FF 002 WAS THE	N INSTALLED. WING RT P	/N 2020343R.		
722		BEECH	PWA			BUS BAR	SHORTED	567	4/3/93
		B100	PT6A28			327628	THERMOCOUPLE T5		CA930702201
	(CAN) THERMOCO ANY PROBLEMS.	UPLE BRACKETS FIBE	ROUS INSULATION I	BREAKS DOWN VERY	Y RAPIDLY CAUSIN	G LOW TEMPERATURE IN	DICATIONS. OLD TYPE SOL	ID INSULA	ATION DID NOT GIVE
820		BEECH				PIPE	WORN		3/5/96
		B200C				10092004115	FUEL DISTRBUTION		AU960271
	(AUS) MAIN FUEL	PIPE CHAFING ON STR	UCTURE IN AREA BI	ETWEEN MAIN LAND	ING GEAR BAY ANI	D WING FUEL TANK - FUE	L PIPE ON VH-AMM IN SIMIL	AR CONDI	TION
341		BEECH	PWA			RIVETS	SHEARED	6363	6/9/93
		B200	PT6A41			MS247DD6	FS 188.0		CA930622207
	(CAN) FUSELAGE S	STA 188.0 AT LT FUSEL	AGE LONGERON TO	WING MAIN SPAR A	TTACHMENT - 2 RI	VETS FOUND SHEARED. I	T WING STA 25. 0. AIRCRAF	T TT: 7,67	4.
810		BEECH	CONT			BAFFLE	DISINTEGRATED		2/17/96
2010		58	IO520C				FUEL STORAGE SYS		AU960243
	` /	EL SYSTEM RESERVO ERSONNEL/MAINTEN <i>A</i>		SINTEGRATED - FOU	ND DURING INSPE	CTION IAW SB 2109 PARA	1 - SUSPECT BAFFLE HAD NO	OTBEEN RI	EPLACED IAW BEEC
3260		BEECH				SWITCH	WORN	740	6/18/93
		C90A				44EN16	RT MLG		CA930628301
	(CAN) DURING TO UNSAFE AGAIN. P		R SHOWED UNSAFE	INDICATION. GEAR	RETRACTED AND E	XTENDED, ALL OKAY. AI	TER LANDING AND DURING	G TAXI, RT	GEAR SHOWED
722		BEECH	PWA			BUS BAR	SHORTED	1801	9/8/92
		99	PT6A27			327628	THERMOCOUPLE T5		CA930702202
	(CAN) THERMOCO ANY PROBLEM.	UPLE BRACKETS FIBE	ROUS INSULATION I	BREAKS DOWN VERY	Y RAPIDLY CAUSIN	G LOW TERMPERATURE I	NDICATIONS. OLD TYPE SO	LID INSUL	ATION DID NOT GIV
8010		BEECH	PWA			CABLE END	LOOSE		6/16/93
		B99	PT6A28				LT ENGINE START		CA930708301
	(CAN) START CON	TROL CABLE SWAGED	END FOUND LOOSE	E. SWAGED END HAD	PULLED OUT.				
160		BNORM	LYC		LYC	HOSE	FAULTY		2/27/96
		BN2B20	IO540K1B5			352002034	ENG AIR INT		AU960242
	(AUS) LH AND RH ENGINE AIR INDUCTION HOSES FAULTY AS PER AD/BN2/57 AND SB BN2-95 - LH ENGINE HOSE WIRE SEPARATING - RH ENGINE HOSE WIRE SEPARATING AND HOSE PARTIALLY COLLAPSED - BOTH HOSES WERE SERVICEABLE AT LAST 50 HOUR SERVICING								
7430		CESSNA	CONT		BENDIX	TUMBLERS	WORN	3218	6/23/93
		170B	O300B		103572901	13777	IGNITION SWITCH		CA930706401
	(CAN) IN REFEREN	ICE TO FEEDBACK 4/92	2, IGNITION SWITCH	KEY COULD BE PUIL	LED OUT FROM ALI	L RUNNING POSITION.			

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3233		CESSNA				BOLT	SHEARED	4660	6/7/93
		172RG				AN17522A	RT MLG ACTUATOR		CA930622205
****	,						OLT HELD IN PLACE BY GRE. REPLACED WITH ONES REQU		
3246		CESSNA			MCAULY	HUB	CORRODED		3/6/96
		172N			WHEEL	D30256	LG WHEEL/BRAKE S		AU960266
	(AUS) WHEEL HUB	CORRODED - THREA	DS STRIPPED ALLOW	ING WHEEL FLANGE	E AND TYRE TO SEI	PARATE FROM HUB			
2731		CESSNA				PIN	BROKEN		6/11/93
		180				761259	TRIM WHEEL		CA930618201
		M PROCEDURES IN C OCCURRENCE THIS				EFFECT. INSPECTION FO	UND TRIM WHEEL TO TRIM A	CTUATOR	ROD ROLL PIN
7120		CESSNA	CONT			MOUNT	BROKEN	3250	6/24/93
		180H	O470R			751127	ENGINE		CA930624302
	(CAN) DURING TAI OLD CRACKING VI	- , -	A LOUD BANG. INSE	PECTION SHOWED EN	NGINE MOUNT UPPI	ER LEFT SUPPORT STRUT	HAD SEPARATED AT TOP OF	F GUSSET.	NO CORROSION OR
7820		CESSNA				MUFFLER	CRACKED	1422	6/5/93
		A185E				CEM21	OUTLET PIPE		CA930617108
	(CAN) CRACK FOU	ND UNDER REINFORG	CING PLATE AT BASE	OF OUTLET PIPE AL	LOWING CARBON I	MONOXIDE TO LEAK INT	O CABIN.		
2840		CESSNA			STRATOFLEX	HOSE	DETERIORATED	103	6/28/93
		188B				1563	FUEL PRESS		CA930628303
	,						E EVIDENT WHEN LOW FUEL JUNE '91. NO KNOWLEDGE (		
5510		CESSNA	CONT		CESSNA	BRACKET	BROKEN		3/1/96
		U206E	IO520F		STABILISER	12321391	HORZ STAB SYS		AU960257
							OORS REMOVED AND DEFLE OR FURTHER INFORMATION	CTORFITTI	ED - SUSPECT
7921		CESSNA	CONT			COOLER	LEAKING		6/8/93
		U206	IO520F			8526732	ENG OIL		CA930622602
	(CAN) OIL COOLER	LEAKING AT LOWER	R LEFT CORNER IN CO	ORE.					
2750		CESSNA				BOLT	FAILED	715	6/21/93
		208B			26222812	AN4H73A	FLAP BELLCRANK		CA930629301
	BELLCRACK FOUN OF THREAD WAS S	ID LOOSE IN MOUNTI	NG BRACKETS AND T INSERT IN UPPER MO	THRU BOLT HAD DRO DUNTING BRACKET.	OPPED DOWN BEIN FLAPS WERE OUT	G HELD IN PLACE BY LO OF RIG, THEREFORE, LT I	REAKER. FLAPS FOUND WIT CKWIRE. BOLT HAD BROKEN FLAP BOTTOMED OUT AND N	N AT THRE	ADED END AND PART
3233		CESSNA	CONT			ACTUATOR	CRACKED	2529	6/2/93
		337	IO360G			12811	MLG		CA930625105
	(CAN) MI G FAII FI	TO EXTEND AND LO	CK NLG OKAY AC	TUATOR BODY CRAC	CKED AT THE CAST	ING FLANGE. GEAR UP L	ANDING CARRIED OUT.		

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
2510		CESSNA				SEAT BACK	BROKEN		7/13/92
		402B				8127354	COCKPIT		CA930628403
	(CAN) SEAT BACK	K FRAME SUPPORT BRO	KEN.						
2810		CESSNA				FUEL CELL	DETERIORATED		3/8/96
		402B				41423	FUEL STORAGE SYS		AU960258
	(AUS) LH AUXILIA	ARY FUEL CELL DISINT	EGRATING IN AREA	OF CONTACT WITH	GASKET SEALER -	FUEL CELLS ARE A RELAT	ΓIVELY NEW ITEM		
3230		CESSNA				DRAG BRACE	CRACKED		6/8/93
		402C				514225	NLG		CA930628416
	(CAN) DURING IN	SPECTION PER CQB 91-	9R2, NLG DRAG BRA	ACE FOUND CRACKE	D.				
3244		CESSNA		MCAULY		TIRE	DEFLATED		2/27/96
		404CESSNA		3FF32C501	5003064		LG WHEEL/BRAKE S	87	AU960246
	(AUS) RH MAIN W	HEEL TYRE DEFLATE	DUE TO HEAVY AP	PLICATION OF BRAK	ES CAUSING FLAT	SPOT - OCCURRED DURIN	G CREW TRAINING		
3320		CESSNA	PWA			WIRE	BURNT		5/23/93
		550	JT15D4				FLUORESCENT LITE		CA930628420
		ANGING A FLUORESCE INSIDE CABIN DOOR N			NOTICED. WIRE BU	JNDLE - RUNS UNPROTECT	TED THROUGH GASPER BOX	AND CHA	FED AND SHORTED
3246		DHAV				TRACK	CRACKED		7/5/93
		DHC2*				CAO73371	NOSE GEAR		CA930705410
	(CAN) ALL FOUR	ENDS FOUND CRACKEI	D.						
2400		DHAV	PWA		HARTMAN	RELAY	WRONG PART		6/24/93
		DHC6*	PT6A20		A701D	A71D	REV CURRENT		CA930702209
	(CAN) REVERSE C	CURRENT RELAY IS RA	TED AT 400 AMPS. TI	HE ABOVE UNIT HAS	300 AMP CONTAC	ΓS INSTALLED. UNAUTHO	RIZED MOD USING BOGUS PA	ARTS HAS	BEEN DONE.
2711		DHAV				ROD	BROKEN		5/29/93
		DHC6300				C6CW1481	AILERN SERVO TAB		CA930628419
	(CAN) AILERON S	ERVO TAB CONTROL F	ROD FOUND BROKE	N AND HANGING DOV	WN. ROD BROKEN	.5 INCH FROM BOTTOM EN	ND. REFER TO SB 6/472.		
7722		DHAV	PWA			BUS BAR	SHORTED	1300	8/28/90
		DHC6300	PT6A27			327628	THERMOCOUPLE T5		CA930702210
	(CAN) THERMOCO ANY PROBLEMS.	OUPLE BRACKET FIBER	ROUS INSULATION B	REAKS DOWN VERY	RAPIDLY CAUSIN	G LOW T5 TEMPERATURE I	INDICATIONS. OLD TYPE SO	LID INSUI	ATION DID NOT GIVE
7722		DHAV	PWA			BUS BAR	SHORTED	1299	3/1/93
		DHC6300	PT6A27			327628	THERMOCOUPLE T5		CA930702204
	(CAN) THERMOCO ANY PROBLEM.	OUPLE BRACKET FIBER	ROUS INSULATION B	REAKS DOWN VERY	RAPIDLY CAUSING	G LOW TERMPERATURE IN	IDICATIONS. OLD TYPE SOLI	D INSULA	TION DID NOT GIVE
3222		GULSTM				STRUT	FAILED		1/27/96
		AA5				702057505	NLG		AU960262
	` /						COVERING BOOT - NLG COLL NNEL/MAINTENANCE ERRO		ROPELLER

INTERNATIONAL	SERVICE DIFFICU	LTY REPORT SUMMARY	' - AIRCRAFT (cont'd)
INTERNATIONAL			- AINCINALL (COILLI)

4/19/98 To 4/25/98	ISSUE: 98-17	ZAC-327
<u> </u>	1000217017	

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO
3411		GULSTM			GRUMAN	PITOT TUBE	CRACKED	1382	5/31/93
		AA5A				5232	PITOT SYS		CA930622204
	(CAN) WHEN CAN	OPY SLID BACK DURI	NG FLIGHT, AIRSPEE	D INCREASED BY 20	KNOTS. PITOT-TUE	BE FOUND CRACKED.			
5280		PIPER				HINGE	FAILED	3558	6/14/93
		PA60601P			25006202		RT MLG DOOR		CA930625201
	` '	LIGHT INSPECTION, PII SECOND OCCURRENCI					REE RIVETS SECURING DO	OR HINGE T	O FUSELAGE WERE
3211		PIPER	LYC			BOLT	INCORRECT FIT		3/6/96
		PA28RT201	IO360C1C6		6750200	401335	RT MLG		AU960244
	` '	ANDING GEAR TRUNN LODGED - DAMAGE TO				RRECTLY TORQUED FOLI	LOWING MAINTENANCE -	AFTTRUNNI	ON RETAINER PIN
5343		PIPER				BOLT	FAILED		2/16/96
		PA28161				AN411A	LT MLG		AU960245
	(AUS) LH MAIN L	ANDING GEAR OUTBOA	ARD ATTACHMENT	BOLT FAILED - BOLT	WAS PROTRUDING	G FROM SKIN			
3210		PIPER				STUD	CRACKED		3/6/96
		PA30				2251200	MAIN GEAR SYS		AU960253
	(AUS) LH AND RH	I MAIN LANDING GEAR	SIDE BRACE STUDS	CRACKED - FOUND	DURING MAGNETIC	C PARTICLE INSPECTION I.	AW AD/PA30/34		
3260		PIPER				WIRE	BROKEN		5/18/93
		PA30					MLG SWITCH		CA930628410
	(CAN) GEARDOW SWITCH IN WHEE		VING UNSAFE. POH	CHECK LIST COMPLE	ETED, NO EFFECT. 1	LANDED OK. FOUND BRO	KEN WIRE AT THE FLEX PO	OINT TO THE	ELT GEAR SAFETY
2421		PIPER			PRESTOLITE	BEARING	FAILED	1166	6/7/93
		PA31350			ALU8421	K231	ALTERNATOR		CA930628422
	(CAN) CREW NOT	ED SPARKS COMING F	ROM RT ENGINE. AI	TERNATOR SWITCH	ED OFF - LANDED O	OK. ALTERNATOR BEARIN	IGS FAILED. UNIT REPLAC	CED.	
3260		PIPER				SWITCH	DIRTY		6/12/93
		PA31350				1CH214	LT MLG		CA930702214
	(CAN) ON GEAR I	OOWN SELECTION, GEA	R SHOWING UNSAF	E. GEAR CYCLED AN	D GOT 3 GREEN LI	GHTS. LANDING GEAR AN	ID SWITCHES CLEANED AT	ND LUBRICA	TED. TESTED OK.
5751		PIPER				SPAR	CRACKED		3/3/96
		PA31350					RT AILERON		AU960235
	(AUS) RH AILERO	N SPAR CRACKED IN A	REA BEHIND INBOA	ARD HINGE ARM ATT	ACHMENT POINT -	FOUND DURING INSPECTI	ON IAW AD/PA31/118		
2421		PIPER	CONT		PRESTOLITE	BEARING	DESTROYED	1389	6/21/93
		PA34220T	TSIO360KB		ALX9425		SLIP RING HSNG	20	CA930702208
	(CAN) ALTERNAT	OR BEARING DESTROY	YED IN SLIP RING EN	D HOUSING. ADEQU	ATE LUBRICATION	EVIDENT (CHEVRON SR-2	2). HOUSING AND STATOR	ALSO DAM	AGED.
End of IN	TERNATIONAL SE	RVICE DIFFICULTY I	REPORT SUMMAR	Y - AIRCRAFT)					

## <u>INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - HELICOPTERS</u>

<u>4/19/98 - 4/25/98 ISSUE: 98-17 ZAC-327</u>

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO			
3040		AEROSP				WIPER ARM	CRACKED		2/15/96			
		AS355F2				350A89103701	WINDOW AI/DE-ICE		AU960241			
	(AUS) WINDSHIEL	D WIPER ARM CRACK	ED THROUGH PIN HO	OLE THAT SECURES S	PRINGTO WIPER AR	M						
3340		BELL	ALLSN			LAMP	MELTED		6/8/93			
		206B	250C20			4596	LANDING LIGHT		CA930618501			
	(CAN) SEVERE DE	(CAN) SEVERE DETERIORATION OF ELECTRICAL WIRES AT THE LEAD SOLDERED JUNCTION LAMP.										
6300		BELL	PWA			BEARING	ROUGH	2495	5/3/93			
		212	PT6T3			2446233	M/R DRIVE		CA930622603			
	(CAN) BEARING R	UNNING ROUGH CAUS	SING HEAT AND PAIN	NT DISCOLORATION	ON HANGER ASSY.							
7250		BELL	PWA			BLADE	FAILED		6/4/93			
		212	PT6T3			32712	POWER TURBINE		CA930702114			
5302	(CAN) DURING DA	BELL 222U JILY INSPECTION, ENG	INEER DISCOVERED	) A CRACK IN RT SIDI	E OF TAIL BOOM BE	PANEL FWEEN STN 212.0 AND ST	CRACKED TAIL BOOM TN 224.20 JUST BELOW WL 8	4667 1.29. TAIL 1	4/6/93 CA930625202 BOOM REPAIRED IN			
	(CAN) DURING DAILY INSPECTION, ENGINEER DISCOVERED A CRACK IN RT SIDE OF TAIL BOOM BETWEEN STN 212.0 AND STN 224.20 JUST BELOW WL 81.29. TAIL BOOM REPAIRED IN ACCORDANCE WITH BHC DRAWING 222-035-150-105.											
6320		BOLKMS				BEARING	CORRODED	2468	3/12/93			
		BO105CBS			4638001001	46383224	M/R GR BOX		CA930628417			
	(CAN) BEARING R SURFACE.	OLLERS SHOWED SIGN	NS OF CORROSION A	ND EXCESSIVE PEEL	ING. INPUT PINION	GEAR P/N 4638 302 002 HA	AS HEAVY PEELING ON ARE	A OF BEAR	ING RUNNING			
6310		HILLER			HILLER	LOCKNUT	LOOSE		2/4/96			
		UH12E			TRANSMISSION	23623	ENG/TRANS CPLNG	1034	AU960238			
	CAUSED BY INSUI LOCKWIRE PICKIN	FFICIENT TORQUE ON	NUT DURING LAST DBREAKING ALLOW	TRANSMISION OVER	HAUL, NUT AND/OR	BEARINGS NOT CORRECT	O BIND AGAINST THE FIRST TLY SEATED DURING ASSE NSMISSION FREEWHEEL LO	MBLY AT (	OVERHAUL OR			
					DODGINI	BRACKET	BROKEN		2/20/06			
6710		ROBSIN			ROBSIN	DIACILLI	DRUKEN		2/28/96			
6710		ROBSIN R22BETA			KOBSIN	A4372	MAIN RTR CNTRL	1805	2/28/96 AU960237			
6710	(AUS) COLLECTIV THE BRACKET	R22BETA	BRACKET BROKEN -	SUSPECT FAILURE IN		A4372			AU960237			

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO			
8530		AMTRMX	ROTAX			PISTON	CRACKED		1/28/96			
		XP503	ROTAX582				ENGINE CYL SEC		AU960250			
	(AUS) ENGINE PISTON CROWN CRACKED - THIS DEFECT WAS RECEIVED FROM THE AUF AND IS FOR INFORMATION ONLY											
7250		BELL	PWA			BLADE	FAILED		6/4/93			
		212	PT6T3			32712	POWER TURBINE		CA930702114			
		ANDING. GROUND INS					VIBRATE. NR 2 ENGINE WA D TURBINE WHEEL DAMAG					
7421		CESSNA	LYC	MCAULY		SPARK PLUG	FOULED		3/1/96			
		152	O235L2C	1A103TCM		RHM38E	ENG,IGNITN DISTR	30	AU960240			
	(AUS) BOTTOM SPARK PLUGS IN ENGINE FOULED											
8530		CESSNA	CONT		CONT	EXHAUST VALVE	WORN		2/7/96			
		182K	O470R		VALVEGUIDE	646283	RT ENG CYLINDER	91	AU960256			
	(AUS) ENGINE EXHAUST VALVES PNO 646283 AND VALVE GUIDES PNO 643766 WORNAND LEAKING											
8530		CESSNA	CONT		CONT	CYLINDER	SEPARATED	95	7/3/93			
		U206	IO520*			646657CEA4	NR 6		CA930709202			
	` '	(CAN) DURING CRUISE, PILOT REPORTED A LOUD BANG AND SUBSEQUENT ENGINE RUNNING ROUGH. INVESTIGATION REVEALED TOTAL SEPARATION OF CYLINDER HEAD FROM BARREL. NR 6 CYLINDER REPLACED.										
8530		CESSNA	CONT			CYLINDER	FAILED	23	5/15/93			
		U206B	IO520D			646657CE	EXH RKR SHAFT		CA930622206			
	( - )						ENCED CATASTROPHIC FAIL E BOLT IS SHORT AND THE S					
8530		CESSNA	CONT		CONT	CYLINDER	CRACKED	168	6/18/93			
		337G	IO360G			652995	AFT ENGINE		CA930702213			
	(CAN) BLUE SMOI	KE EMITTED FROM REA	AR ENGINE COWL O	N START-UP. INSPEC	CTION REVEALED SI	EVERE OIL LEAK DUE TO	CYLINDER SEPARATION.					
8530		DHAV	PWA			BUSHING	STRIPPED	100	6/18/93			
		DHC2MK1	R985AN14B			3496	CYL SPARK PLUG		CA930628426			
	( - )						E CYLINDERS. FINGER PRES RRECT SPARK PLUG INSERT					
7320		DHAV	PWA			P3 LINE	BROKEN	292	6/6/93			
		DHC6100	PT6A50			335623	NR 3 ENG		CA930628423			
	` '	OUT, NR 3 ENGINE SPO GINE. PART TC: 437.	OLED DOWN. POWI	ER LEVER WAS UNRE	SPONSIVE. CREW S	SECURED ENGINE AND AI	RCRAFT LANDED. INSPECT	ION REVEA	LED A BROKEN P3			
7313		MOONEY	LYC			FUEL NOZZLE	PLUGGED	180	6/11/93			
		M20F	IO360A1A			73772	NR 3		CA930617301			
	( - )						DVANCED TO FULL RICH. T OLED SO RAPIDLY THAT BO					

INTERNATIONAL	SERVICE DIFFICUI	TY REPORT SUMMARY	FNGINES (cont'd)

<b>INTERNA</b>	NTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - ENGINES (cont'd) 4/19/98 To 4/25/98 ISSUE: 98-17 ZAC-327										
ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO		
8530		MOONEY	CONT		CONT	CYLINDER	SEPARATED		2/19/96		
		M20K	TSIO360MB			317206	ENG CYL SEC	430	AU960232		
	(AUS) NO4 CYLINDER HEAD SEPARATED FROM CYLINDER BARREL IN AREA OF SCREWTHREADS - PRE-EXISTING CRACK IN SCREW THREAD AREA										
8520		PIPER	LYC		LYC	CAM FOLLOWER	FAILED		2/27/96		
		PA28180	O360A4A		0360A4A	L2809236A	ENGINE		AU960273		
	(AUS) ENGINE CAM	I FOLLOWERS FAILED	- SEVERE INTERNAL	DAMAGE TO ENGIN	NE - METAL CONTAM	INATION OF OIL SYSTEM					
8530		PIPER	LYC			CYLINDER	SEPARATED	359	6/14/93		
		PA31350	LTIO540J2BD			LW12966	NR 1		CA930628302		
	(CAN) NRI CYLINDER FAILED IN-FLIGHT. THE CYLINDER BARREL SEPARATED FROM THE HEAD BETWEEN THE TOP BARREL COOLING FIN AND SECOND COOLING FIN. THE CYLINDER HEAD WAS FOUND LAYING IN THE COWLING SUPPORTED BY THE IGNITION WIRES. THE FAILURE CAUSED SEVERE DAMAGE TO THE PISTON AT THE RING LANDS. THE CONNECTING ROD WAS REPLACED AS A PRECAUTIONARY MEASURE.										
8530	_	PIPER	LYC			CYLINDER STUDS	SHEARED		6/10/93		
		PA34200	IO360C1E6			3813	NR 2 CYL		CA930629601		
	(CAN) NR 2 CYLINI	DER STUDS SHEARED (	OFF.								

ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO		
6122		CESSNA		MCAULY		DRIVE SHAFT	SHEARED		2/18/96		
		404CESSNA		3FF32C501		DCFU290D13T6	PROP CNTRL SYS	7	AU960247		
	(AUS) PROPELLER GOVERNOR (CSU) DRIVE SHAFT SHEARED										
(End of INT	(End of INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - COMPONENTS)										

# <u>INTERNATIONAL SERVICE DIFFICULTY REPORT SUMMARY - PROPELLERS</u>

4/19/98	- 4/25/98	ISSUE:	98-17	ZAC-327
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ATA OPER	REG. NO SERIAL NO	ACFT MAKE ACFT MODEL	ENG MAKE ENG MDL	PROP MAKE PROP MDL	COMP MFG COMP MDL	PART NAME PART NUMBER	PART COND PART LOC.	TT TSO	DIFF. DATE OPER CONT NO			
6110		CESSNA		MCAULY	MCAULY	O-RING	WRONG PART		3/12/96			
		402B		3AF32C93		A163352	PROPELLER ASSY	940	AU960272			
	` '						EAD OF CORRECT PNOA1633-3 ART - PERSONNEL/MAINTEN					
6114		MOONEY	LYC	HARTZL	HARTZL	HUB	CORRODED		2/28/96			
		M20E	IO360A1A	HCC2YK1		220117	PROPELLER ASSY	817	AU960239			
	(AUS) PROPELLER HUB SEVERELY CORRODED INTERNALLY IN HUB CAVITY AND AROUND ATTACHMENT BOLT FILLETS											
(End of IN	ΓERNATIONAL SER	VICE DIFFICULTY F	REPORT SUMMARY	' - PROPELLERS)								



# SERVICE DIFFICULTY REPORT SUMMARY GENERAL AVIATION - INDEX



The following information provides a tally of the Service Difficulty Reports (SDR's) contained in this weeks issue of the General Aviation SDR Summary. The totals represent only a summation of the SDR's that were submitted to the FAA, Aviation Data Systems Branch, AFS-620, and processed in time for inclusion in the Summary. The first table is a tally of the number of SDR's submitted through the indicated Flight Standards District Office (FSDO). The second table sorts the SDR's by the aircraft or equipment make and model. The heading at the top of each table provides a two digit Joint Aircraft System/Component (JASC) code grouping (e.g., JASC codes 1100 thru 1800 are represented by the heading labeled 11-18) which categorizes in general, the problem areas for each reported discrepancy.

The Flight Standards Service Difficulty Program objective is to achieve prompt and appropriate correction of conditions adversely affecting continued airworthiness of aeronautical products. This is accomplished by the collection of Service Difficulty and Malfunction or Defect Reports. SDR's are consolidation and collation into common data base where they are analyzed for trends, problems, and alert information. This information is then disseminated to the appropriate segments of the aviation community and to other FAA offices.

The number of SDR's submitted is not an indicator of the mechanical reliability or fitness of an air carrier's aircraft fleet and should not be used as such. The air carriers certificate holding office has the primary responsibility for planning, programming evaluations, and assessing the performance of operators. Questions regarding an air carrier's fleet performance should be directed to the appropriate Flight Standards District Office, Certificate Management Office, or Certificate Management Unit.

#### 4/19/98 To 4/25/98 ISSUE: 98-17 ZAC-327

## **GENERAL AVIATION SUMMARY INDEX BY DISTRICT OFFICE**

DISTRICT OFFICE	11-18	21-29	SDR TOTA 30-38	LS BY FAA A 45-49	TA SYSTEM ( 51-57	CHAPTER 61-67	71-79	80-85	TOTAL
AU S	0	3	7	0	3	5	2	4	24
CA	0	8	10	0	4	2	11	7	42
CE 01	0	0	0	0	0	1	0	0	1
CE 03	0	0	0	0	1	0	0	0	1
CE 05	0	0	0	0	2	0	0	0	2
CE 07	0	0	0	0	0	0	1	0	1
EA 11	0	0	0	0	0	0	1	0	1
EA 13	0	1	1	0	0	0	2	3	7
EA 17	0	0	1	0	0	1	0	0	2
EA 25	0	1	0	0	0	0	0	1	2
FS 01	0	1	2	0	0	17	2	0	22
GL 13	0	0	0	0	0	0	0	1	1
GL 19	0	0	0	0	2	0	1	0	3
GL 25	0	2	0	0	2	0	0	0	4
NE 01	0	0	0	0	0	0	1	1	2
NM 01	0	0	0	0	0	0	1	0	1
NM 11	0	2	0	0	0	3	5	0	10
NM 13	0	0	0	0	1	0	0	0	1
SO 03	0	1	0	0	0	0	0	0	1
SO 09	0	0	0	0	0	0	1	0	1
SO 15	0	1	3	0	0	0	0	0	4
SO 16	0	0	0	0	0	1	2	0	3
SO 17	0	0	0	0	0	1	0	0	1
SW 01	0	0	0	0	0	0	0	1	1
SW 03	0	5	9	0	1	18	0	0	33
SW 11	0	0	0	0	0	0	1	0	1

GENERAL	AVIATION S	UMMARY INDEX by	DISTRICT OFFIC	F (cont'd)
OLINLIAL	AVIATIONS		DISTRICT OFFIC	L (Com u)

DISTRICT		SDR TOTALS BY FAA ATA SYSTEM CHAPTER								
OFFICE	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL	
SW 13	0	1	1	0	2	3	5	0	12	
SW 15	0	1	0	0	0	3	0	0	4	
SW 19	0	0	0	0	0	2	0	0	2	
WP 03	0	0	1	0	0	0	0	0	1	
WP 07	0	1	0	0	0	0	0	1	2	
WP 11	0	2	1	0	2	0	1	0	6	
WP 15	0	0	0	0	1	0	0	0	1	
WP 17	0	0	0	0	0	1	0	0	1	
TOTALS	0	30	36	0	21	58	37	19	201	
(End of GENERAL AVI	ATION SUMMA	RY INDEX by D	ISTRICT OFFICE	E Report)						

#### GENERAL AVIATION SUMMARY INDEX by MANUFACTURER MAKE and MODEL

4/19/98 To 4/25/98 ISSUE: 98-17 ZAC-327

AIRCRAFT	AIRCRAFT					TA SYSTEM				
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
AEROSP	AS355F2	0	0	1	0	0	0	0	0	1
AMTRMX	XP503	0	0	1	0	0	0	0	1	2
AYRES	S2*	0	0	0	0	1	0	0	0	1
AYRES	S2RT34NORMAL	0	0	0	0	0	1	0	0	1
BBAVIA	8GCBC	0	2	0	0	0	0	0	0	2
BBAVIA	8KCAB	0	1	0	0	0	0	0	0	1
BEECH	200BEECH	0	0	0	0	1	0	0	0	1
BEECH	58	0	1	0	0	0	0	0	0	1
ВЕЕСН	65	0	0	0	0	1	0	0	0	1
BEECH	76	0	1	0	0	0	0	0	0	1
BEECH	99	0	0	0	0	0	0	1	0	1
BEECH	B100	0	0	0	0	0	0	1	0	1
BEECH	B200	0	0	0	0	1	0	0	0	1
BEECH	B200C	0	1	0	0	0	0	0	0	1
BEECH	B99	0	0	0	0	0	0	0	1	1
BEECH	C23	0	0	0	0	2	0	0	0	2
BEECH	C90A	0	0	3	0	0	0	0	0	3
BELL	206B	0	0	1	0	0	2	0	0	3
BELL	206B3	0	0	0	0	1	1	0	0	2
BELL	206L	0	1	1	0	0	9	3	0	14
BELL	206L1	0	0	2	0	0	1	0	0	3
BELL	206L3	0	0	1	0	0	0	0	0	1
BELL	212	0	1	3	0	1	9	7	0	21
BELL	214ST	0	2	4	0	0	2	0	0	8
BELL	222U	0	0	0	0	1	0	0	0	1
BELL	407	0	0	0	0	0	14	0	0	14
BELL	412	0	0	2	0	0	0	0	0	2
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GENERAL AVIATION SUMMARY INDEX by MANUFACTURER MAKE and MODEL (cont'd)  AIRCRAFT AIRCRAFT SDR TOTALS BY FAA ATA SYSTEM CHAPTER									4/19/98 To 4/25/98 ISSUE: 98-17 ZAC-3		
MAKE	MODEL	11-18	21-29	30-38	LS BY FAA A 45-49	51-57	61-67	71-79	80-85	TOTAL	
BNORM	BN2B20	0	0	0	0	0	0	1	0	1	
BOLKMS	BK117A4	0	2	0	0	0	0	0	0	2	
BOLKMS	BO105CBS	0	0	0	0	0	1	0	0	1	
BOLKMS	BO105LSA3	0	1	0	0	0	2	5	0	8	
CESSNA	150G	0	2	0	0	2	0	0	0	4	
CESSNA	152	0	0	0	0	0	0	1	1	2	
CESSNA	170B	0	0	0	0	0	0	1	0	1	
CESSNA	172L	0	0	0	0	0	0	1	0	1	
CESSNA	172N	0	0	1	0	0	0	0	0	1	
CESSNA	172P	0	0	1	0	0	0	0	0	1	
CESSNA	172RG	0	0	1	0	0	0	0	0	1	
CESSNA	177RG	0	0	0	0	0	0	0	1	1	
CESSNA	180	0	1	0	0	0	0	0	0	1	
CESSNA	180H	0	0	0	0	0	0	1	0	1	
CESSNA	182K	0	0	0	0	0	0	0	1	1	
CESSNA	182P	0	0	0	0	0	0	0	1	1	
CESSNA	182R	0	0	0	0	2	0	0	0	2	
CESSNA	188B	0	1	0	0	0	0	0	0	1	
CESSNA	208B	0	1	0	0	0	0	0	0	1	
CESSNA	210M	0	0	0	0	0	0	1	0	1	
CESSNA	320A	0	0	1	0	0	0	0	0	1	
CESSNA	337	0	0	1	0	0	0	0	0	1	
CESSNA	337G	0	1	0	0	0	0	0	1	2	
CESSNA	340A	0	0	1	0	0	0	0	0	1	
CESSNA	402B	0	2	0	0	0	2	0	0	4	
CESSNA	402C	0	0	1	0	0	0	0	0	1	
CESSNA	404	0	0	0	0	0	0	0	1	1	

AIRCRAFT	AIRCRAFT			SDR TOTA	LS BY FAA A	TA SYSTEM	CHAPTER			
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
CESSNA	404CESSNA	0	0	1	0	0	1	0	0	2
CESSNA	414A	0	1	0	0	0	0	0	0	1
CESSNA	550	0	0	1	0	1	0	1	0	3
CESSNA	A185E	0	0	0	0	0	0	1	0	1
CESSNA	S550	0	1	0	0	0	0	0	0	1
CESSNA	U206	0	0	0	0	0	0	1	1	2
CESSNA	U206B	0	0	0	0	0	0	0	1	1
CESSNA	U206E	0	0	0	0	1	0	0	0	1
CESSNA	U206F	0	0	0	0	0	0	1	0	1
DHAV	DHC2*	0	0	1	0	0	0	0	0	1
DHAV	DHC2MK1	0	0	0	0	0	0	0	1	1
DHAV	DHC6*	0	1	0	0	0	0	0	0	1
DHAV	DHC6100	0	0	0	0	0	0	1	0	1
DHAV	DHC6300	0	2	0	0	0	0	2	0	4
DOUG	MD900	0	0	0	0	0	1	0	0	1
GULSTM	112TCA	0	0	1	0	0	0	0	0	1
GULSTM	500B	0	0	0	0	0	3	0	0	3
GULSTM	560	0	1	0	0	1	0	0	0	2
GULSTM	690A	0	0	0	0	0	0	1	0	1
GULSTM	690B	0	0	0	0	2	0	0	0	2
GULSTM	AA1A	0	0	0	0	0	0	0	1	1
GULSTM	AA5	0	0	1	0	0	0	0	0	1
GULSTM	AA5A	0	0	1	0	0	0	0	0	1
HILLER	UH12E	0	0	0	0	0	1	0	0	1
HUGHES	369D	0	1	0	0	0	0	0	0	1
MOONEY	M20E	0	0	0	0	0	1	0	0	1

M20F

MOONEY

GENERAL AV	TATION SUMMARY I	<u>4/19/98 To 4/25/98 ISSUE: 98-17 ZAC-327</u>								
AIRCRAFT	AIRCRAFT	11 10	21 20			TA SYSTEM		71.70	00.05	TOTAL
MAKE	MODEL	11-18	21-29	30-38	45-49	51-57	61-67	71-79	80-85	TOTAL
MOONEY	M20J	0	0	0	0	0	0	1	0	1
MOONEY	M20K	0	0	0	0	0	0	0	1	1
PIPER	PA28140	0	0	0	0	0	1	0	0	1
PIPER	PA28161	0	0	0	0	1	1	0	0	2
PIPER	PA28180	0	0	0	0	0	0	0	1	1
PIPER	PA28R200	0	0	0	0	0	0	0	1	1
PIPER	PA28R201T	0	0	0	0	0	0	1	0	1
PIPER	PA28RT201	0	0	1	0	0	0	0	0	1
PIPER	PA30	0	0	2	0	0	0	0	0	2
PIPER	PA31350	0	1	1	0	1	0	0	3	6
PIPER	PA31T	0	0	0	0	0	0	1	0	1
PIPER	PA34200	0	0	0	0	0	0	0	1	1
PIPER	PA34220T	0	1	0	0	0	0	0	0	1
PIPER	PA46310P	0	0	0	0	0	0	1	0	1
PIPER	PA60601P	0	0	0	0	1	0	0	0	1
ROBSIN	R22BETA	0	0	0	0	0	1	0	0	1
SKRSKY	S58ET	0	0	0	0	0	0	1	0	1
SNIAS	AS350B2	0	0	0	0	0	3	0	0	3
SNIAS	AS350BA	0	0	0	0	0	1	0	0	1
	TOTALS	0	30	36	0	21	58	37	19	201
(End of AIR CAI	RRIER SUMMARY INDE	X by OPERATOR I	Report)							

# JOINT AIRCRAFT SYSTEM/COMPONENT CODE TABLE

#### **PREFACE**

The Joint Aircraft System/Component (JASC) Code Table is a modified version of the Air Transport Association of America (ATA), Specification 100 code. It was developed by the Federal Aviation Administration's (FAA), Aviation Data Systems Branch (AFS-620). Technical support was provided by the Galaxy Scientific Corporation, and various representatives of the air carrier and general aviation community.

Over the past four years, the JASC format of the ATA Spec 100 code has gained widespread industry acceptance. In a harmonized effort, the FAA's counterparts in Australia and Canada have adopted the JASC code with only a few exceptions. Some Canadian aircraft manufacturers have also recently adopted this new stardard.

This code table is constructed by using the new JASC four (4) digit code, along with an abbreviated code title. The abbreviated titles have been modified in some cases to clarify the intended use of the accompanying code. This table can be used as a quick reference chart, to assist in the coding and review of aircraft structures or systems data (i.e., Service Difficulty Report (SDR), Accident/Incident Report).

The current coding scheme used in the JASC code was introduced in May 1991, for the technical classification of SDR's. Its predecessor, the FAA aircraft system/component code, was a similar but more complex eight-digit code which was developed over 25 years ago. It was constructed around the computer technology of that period. It consisted of a four digit numerical code plus a four alpha character code to make data retrieval possible. Since that time, computer technology has advanced many fold. Reducing the code from eight to four characters simplifies coding, and in some cases, makes JASC coding match the ATA Specification 100 first three digits, which are used to identify aircraft systems. The ATA code does not reference the fourth digit, so it is free to be used for identifying components.

The JASC code aircraft structural section has increased due to problems inherent with aging aircraft. As an example, FAA code 5301 SXBD was expanded to 20 items due to the high rate of reporting in this area (8021 structural reports were received in 1989). In some instances, there was very little reporting and codes were combined into other systems if the safety impact was not significant. The overall reduction in codes has been from 568 FAA codes to 488 JASC codes, with the significant increase being in the structural area as stated earlier.

The JASC code divides the engine section into two major code groups to separate the turbine and reciprocating engines. The codes for the turbine engines are in JASC Chapter 72, Turbine/Turboprop Engine. The codes for the reciprocating engines are now exclusively found in JASC Chapter 85, Reciprocating Engine.

The other major deviation from ATA Spec 100 is in ATA section 2730, specifically involves the stall warning system. Early technology (primarily on smaller aircraft) directly linked the sensing of flight attitude to one of the components which furnished the means of manually controlling the flight attitude characteristics (elevator). Today, most large transport category aircraft utilize electronic units to sense the change in the environmental condition called stall, and use the data to influence navigation. ATA section 3410, Flight Environment Data, includes high speed warning in its code definition. Stall warning (low speed) is the reciprocal term of high speed warning, so its filing under the same code appears more logical. Thus, with the JASC code it was decided to move the stall warning system to Chapter 34 under the separate code JASC code 3418, Stall Warning System.

The FAA is continuing to pursue worldwide involvement from operators and manufacturers in addressing the need for international standardization of aircraft system/component codes. The ultimate goal is to develop a universal aircraft/component numbering standard which can be used in the manufacturer's maintenance manual, wiring diagram manual, system manuals and illustrated parts catalog. This harmonized standard must be a usable standard for the aircraft manufacturers, air carrier operators and the general aviation community.

We welcome comments and feedback regarding the possible forming of working groups to achieve this long range consideration of possibly harmonizing the ATA Specification 100 code and the JASC code. Comments may be directed to the FAA, Aviation Data Sytem Branch, AFS-620, P.O. Box 25082, Oklahoma City, OK 73125.

# **JOINT AIRCRAFT** SYSTEM/COMPONENT **CODE TABLE**

# JASC/ TITLE

2170 HUMIDITY CONTROL SYSTEM

11 PLACARDS AND	MARKINGS 22	AUTO FLIGHT	24 E	LECTRICAL POWER CONT'D
1100 PLACARDS AND N	MARKINGS 2200	AUTO FLIGHT SYSTEM	2424	AC REGULATOR
	2210		2425	AC INDICATING SYSTEM
12 SERVICING	2211	AUTOPILOT COMPUTER	2430	DC GENERATING SYSTEM
<u> 12 021(11011(0</u>	2212	ALTITUDE CONTROLLER	2431	BATTERY OVERHEAT WARN. SYSTEM
1010 5050 0500000	2213	FLIGHT CONTROLLER	2432	BATTERY/CHARGER SYSTEM
1210 FUEL SERVICING	2214	AUTOPILOT TRIM INDICATOR	2433	DC RECTIFIER-CONVERTER
1220 OIL SERVICING	2215	AUTOPILOT MAIN SERVO	2434	DC GENERATOR-ALTERNATOR
1230 HYDRAULIC FLUID	2216	AUTOPILOT TRIM SERVO	2435	STARTER-GENERATOR
1240 COOLANT SERVIC	ING 2220	SPEED-ATTITUDE CORRECT. SYSTEM	2436	DC REGULATOR
40 HELICOPTED VIDE	2230	AUTO THROTTLE SYSTEM	2437	DC INDICATING SYSTEM
18 HELICOPTER VIBE	2250	A ERODYNAMIC LOAD ALLEVIATING	2440	EXTERNAL POWER SYSTEM
1800 HELICOPTER VIB/I	NOISE ANALYSIS		2450	AC POWER DISTRIBUTION SYSTEM
1810 HELICOPTER VIBR	ATION ANALYSIS 23	COMMUNICATIONS	2460	DC POWER/DISTRIBUTION SYSTEM
1820 HELICOPTER NOIS	E ANALYSIS			
24 AIR CONDITIONIA	2300		<u> 25 E</u>	QUIPM ENT/FURNISHINGS
21 AIR CONDITIONIN			0500	CARIN FOURMENT/FURNIOUS
2100 AIR CONDITIONIN	G SYSTEM 2311	UHF COMMUNICATION SYSTEM	2500	CABIN EQUIPMENT/FURNISHINGS
2110 CABIN COMPRESS	2312	VHF COMMUNICATION SYSTEM	2510	FLIGHT COMPARTMENT EQUIPMENT
2120 AIR DISTRIBUTION	2220	DATA TRANSMISSION AUTO CALL	2520	PASSENGER COMPARTMENT EQUIPMENT
2121 AIR DISTRIBUTION	2330	ENTERTAINMENT SYSTEM	2530	BUFFET/GALLEYS
	CONTROL SYSTEM 2340	INTERPHONE & PA SYSTEM	2540	LAVATORIES
2131 CABIN PRESSURE	2250	AUDIO INTEGRATING SYSTEM	2550	CARGO COMPARTMENTS
2132 CABIN PRESSURE	2260	STATIC DISCHARGE SYSTEM	2551	AGRICULTURAL SPRAY SYSTEM
	/OUTFLOW VALVE 2370	AUDIO/VIDEO MONITORING	2560	EMERGENCY EQUIPMENT
2134 CABIN PRESSURE		ELECTRICAL POWER	2561	LIFE JACKET
2140 HEATING SYSTEM	- · · ·	<u> LEEGTRIOAL TOWER</u>	2562	EMERGENCY LOCATOR BEACON
2150 CABIN COOLING S		ELECTRICAL POWER SYSTEM	2563	PARACHUTE
	URE CONTROL SYSTEM 2410	ALTERNATOR-GENERATOR DRIVE	2564	LIFE RAFT
	URE CONTROLLER 2420		2565	ESCAPE SLIDE
2162 CABIN TEMPERAT			2570	ACCESSORY COMPARTMENT
2163 CABIN TEMPERAT	****		2571	BATTERY BOX STRUCTURE
	0112 02110011		2572	ELECTRONIC SHELF SECTION

2423 PHASE ADAPTER

26 FIRE PROTECTION	29 F	HYDRAULIC POWER	<u>32 L</u>	ANDING GEAR
2600 FIRE PROTECTION SYSTEM	2900	HYDRAULIC POWER SYSTEM	3200	LANDING GEAR SYSTEM
2610 DETECTION SYSTEM	2910	HYDRAULIC, MAIN SYSTEM	3201	LANDING GEAR/WHEEL FAIRING
2611 SMOKE DETECTION	2911	HYDRAULIC POWER-ACCUMULATOR-MAIN	3210	MAIN LANDING GEAR
2612 FIRE DETECTION	2912	HYDRAULIC FILTER-MAIN SYSTEM	3211	MAIN LANDING GEAR ATTACH SECTION
2613 OVERHEAT DETECTION	2913	HYDRAULIC PUMP. ELECT-ENGMAIN	3212	EMERGENCY FLOTATION SECTION
2620 EXTINGUISHING SYSTEM	2914	HYDRAULIC HANDPUMP-MAIN	3213	MAIN LANDING GEAR STRUT/AXLE/TRUCK
2621 FIRE BOTTLE, FIXED	2915	HYDRAULIC PRESSURE RELIEF VLV-MAIN	3220	NOSE/TAIL LANDING GEAR
2622 FIRE BOTTLE, PORTABLE	2916	HYDRAULIC RESERVOIR-MAIN	3221	NOSE/TAIL LANDING GEAR ATTACH SECTION
AZ FILOUT CONTROLO	2917	HYDRAULIC PRESSURE REGULATOR-MAIN	3222	NOSE/TAIL LANDING GEAR STRUT/AXLE
27 FLIGHT CONTROLS	2920	HYDRAULIC, AUXILIARY SYSTEM	3230	LANDING GEAR RETRACT/EXT. SYSTEM
2700 FLIGHT CONTROL SYSTEM	2921	HYDRAULIC ACCUMULATOR-AUXILIARY	3231	LANDING GEAR DOOR RETRACT SECTION
2701 CONTROL COLUMN SECTION	2922	HYDRAULIC FILTER-AUXILIARY	3232	LANDING GEAR DOOR ACTUATOR
2710 AILERON CONTROL SYSTEM	2923	HYDRAULIC PUMP-AUXILIARY	3233	LANDING GEAR ACTUATOR
2711 AILERON TAB CONTROL SYSTEM	2925	HYDRAULIC PRESSURE RELIEF-AUXILIARY	3234	LANDING GEAR SELECTOR
2720 RUDDER CONTROL SYSTEM	2926	HYDRAULIC RESERVOIR-AUXILIARY	3240	LANDING GEAR BRAKE SYSTEM
2721 RUDDER TAB CONTROL SYSTEM	2927	HYDRAULIC PRESSURE REGULATOR-AUX.	3241	BRAKE ANTI-SKID SECTION
2722 RUDDER ACTUATOR	2930	HYDRAULIC SYSTEM INDICATING	3242	BRAKE
2730 ELEVATOR CONTROL SYSTEM	2931	HYDRAULIC PRESSURE INDICATOR	3243	MASTER CYL/BRAKE VALVE
2731 ELEVATOR TAB CONTROL SYSTEM	2932	HYDRAULIC PRESSURE SENSOR	3244	TIRE
2740 STABILIZER CONTROL SYSTEM	2933	HYDRAULIC QUANTITY INDICATOR	3245	TIRE TUBE
2741 STABILIZER POSITION INDICATING	2934	HYDRAULIC QUANTITY SENSOR	3246	WHEEL/SKI/FLOAT
2742 STABILIZER ACTUATOR	30 I	CE AND RAIN PROTECTION	3250	LANDING GEAR STEERING SYSTEM
2750 TE FLAP CONTROL SYSTEM			3251	STEERING UNIT
2751 TE FLAP POSITION IND. SYSTEM	3000	ICE/RAIN PROTECTION SYSTEM	3252	SHIMMY DAMPER
2752 TE FLAP ACTUATOR	3010	AIRFOIL ANTI/DE-ICE SYSTEM	3260	LANDING GEAR POSITION & WARNING
2760 DRAG CONTROL SYSTEM	3020	AIR INTAKE ANTI/DE-ICE SYSTEM	3270	AUXILIARY GEAR (TAIL SKID)
2761 DRAG CONTROL ACTUATOR	3030	PITOT/STATIC ANTI-ICE SYSTEM	33 I	<u>IGHTS</u>
2770 GUST LOCK/DAMPER SYSTEM	3040	WINDSHIELD/DOOR RAIN/ICE REMOVAL		
2780 LE FLAP CONTROL SYSTEM	3050	ANTENNA/RADOME ANTI-ICE/DE-ICE SYSTEM	3300	LIGHTING SYSTEM
2781 LE FLAP POSITION IND. SYSTEM	3060	PROP/ROTOR ANTI-ICE/DE-ICE SYSTEM	3310	FLIGHT COMPARTMENT LIGHTING
2782 LE FLAP ACTUATOR	3070	WATER LINE ANTI-ICE SYSTEM	3320	PASSENGER COMPARTMENT LIGHTING
28 FUEL	3080	ICE DETECTION	3330	CARGO COMPARTMENT LIGHTING
2800 AIRCRAFT FUEL SYSTEM	<u>31 I</u>	<u>NSTRUMENTS</u>	3340 3350	EXTERIOR LIGHTING EMERGENCY LIGHTING
2810 FUEL STORAGE	3100	INDICATING/RECORDING SYSTEM		
2820 ACFT FUEL DISTRIB. SYSTEM	3110	INSTRUMENT PANEL	<u>34 N</u>	AVIGATION
2821 ACFT FUEL FILTER/STRAINER	3120	INDEPENDENT INSTRUMENTS (CLOCK, ETC.)	3400	NAVIGATION SYSTEM
2822 FUEL BOOST PUMP	3130	DATA RECORDERS (FLT/MAINT)	3410	FLIGHT ENVIRONMENT DATA
2823 FUEL SELECTOR/SHUTOFF VALVE	3140	CENTRAL COMPUTERS (EICAS)	3411	PITOT/STATIC SYSTEM
2824 FUEL TRANSFER VALVE	3150	CENTRAL WARNING	3412	OUTSIDE AIR TEMP. IND./SENSOR
2830 FUEL DUMP SYSTEM	3160	CENTRAL DISPLAY	3413	RATE OF CLIMB INDICATOR
2840 ACFT FUEL INDICATING	3170	AUTOMATIC DATA	3414	AIRSPEED/MACH INDICATING
2841 FUEL QUANTITY INDICATOR			3415	HIGH SPEED WARNING
2842 FUEL QUANTITY SENSOR			3416	ALTIMETER, BAROMETRIC/ENCODER
2843 FUEL TEMPERATURE INDICATING				

2844 FUEL PRESSURE INDICATOR

34 NAVIGATION CONT'D	37 VACUUM	5247 APU DOORS
3417 AIR DATA COMPUTER	3700 VACUUM SYSTEM	5248 TAIL CONE DOORS
3418 STALL WARNING SYSTEM	3710 VACUUM DISTRIBUTION SYSTEM	5250 FIXED INNER DOORS
3420 ATTITUDE AND DIRECTION DAT	A SYSTEM 3720 VACUUM INDICATING SYSTEM	5260 ENTRANCE STAIRS
3421 ATTITUDE GYRO & IND. SYSTEM	1	5270 DOOR WARNING SYSTEM
3422 DIRECTIONAL GYRO & IND. SYS	38 WAIER/WASIE	5280 LANDING GEAR DOORS
3423 MAGNETIC COMPASS	3800 WATER & WASTE SYSTEM	53 FUSELAGE
3424 TURN & BANK/RATE OF TURN II	NDICATOR 3810 POTABLE WATER SYSTEM	5300 FUSELAGE STRUCTURE (GENERAL)
3425 INTEGRATED FLT. DIRECTOR SY	STEM 3820 WASH WATER SYSTEM	5301 AERIAL TOW EQUIPMENT
3430 LANDING & TAXI AIDS	3830 WASTE DISPOSAL SYSTEM	5302 ROTORCRAFT TAIL BOOM
3431 LOCALIZER/VOR SYSTEM	3840 AIR SUPPLY (WATER PRESS. SYSTEM	M) 5310 FUSELAGE MAIN STRUCTURE
3432 GLIDE SLOPE SYSTEM 3433 MICROWAVE LANDING SYSTEM	45 CENTRAL MAINT. SYSTEM	5311 FUSELAGE MAIN FRAME 5312 FUSELAGE MAIN BULKHEAD
3434 MARKER BEACON SYSTEM	4500 CENTRAL MAINT. COMPUTER	5312 FUSELAGE MAIN BULKHEAD 5313 FUSELAGE MAIN LONGERON/STRINGER
3435 HEADS UP DISPLAY SYSTEM	OENTINE MINISTER	5314 FUSELAGE MAIN KEEL
3436 WIND SHEAR DETECTION SYSTI	49 AIRBORNE AUXILIARY POWER	5314 FUSELAGE MAIN REEL 5315 FUSELAGE MAIN FLOOR BEAM
3440 INDEPENDENT POS. DETERMINI	NO CYCTEM	5320 FUSELAGE MISCELLANEOUS STRUCTURE
3441 INERTIAL GUIDANCE SYSTEM	4900 AINBONNE AFO STSTEM	5321 FUSELAGE FLOOR PANEL
3442 WEATHER RADAR SYSTEM	4910 A PU COW LING/CONTAINMENT	5322 FUSELAGE INTERNAL MOUNT STRUCTURE
3443 DOPPLER SYSTEM	4920 APU CORE ENGINE	5323 FUSELAGE INTERNAL STAIRS
3444 GROUND PROXIMITY SYSTEM	4930 A PU ENGINE FUEL & CONTROL	5324 FUSELAGE FIXED PARTITIONS
3445 AIR COLLISION AVOIDANCE SY	4940 A PU START/IGNITION SYSTEM STEM (TCAS) 4950 A PU BLEED AIR SYSTEM	5330 FUSELAGE MAIN PLATE/SKIN
3446 NON RADAR WEATHER SYSTEM	4930 AFO BEEED AIR STOTEM	5340 FUSELAGE MAIN ATTACH FITTINGS
3450 DEPENDENT POSITION DETERM	NINC SYSTEM 4900 AFO CONTROLS	5341 WING ATTACH FITTINGS (ON FUSELAGE)
3451 DME/TACAN SYSTEM	4970 APO INDICATING SYSTEM	5342 STABILIZER ATTACH FITTINGS
3452 ATC TRANSPONDER SYSTEM		5343 LANDING GEAR ATTACH FITTINGS
3453 LORAN SYSTEM	4990 APU OIL SYSTEM	5344 FUSELAGE DOOR HINGES
3454 VOR SYSTEM	51 STANDARD PRACTICES/STRUCT	
3455 ADF SYSTEM		5346 DOWEDDIANT ATTACH FITTINGS
3456 OMEGA NAVIGATION SYSTEM	5100 STANDARD PRACTICES/STRUCTURE	5347 SEAT/CARGO ATTACH FITTINGS
3457 GLOBAL POSITIONING SYSTEM	5101 AIRCRAFT STRUCTURES	5350 FUSELAGE AERODYNAMIC FAIRINGS
3460 FLIGHT MANAGE. COMPUTING	SYSTEM 5102 BALLOON REPORTS	54 NACELLES/PYLONS
25 OVVCEN	52 DOORS	
35 OXYGEN	<u>52 DOORS</u>	5400 NACELLE/PYLON STRUCTURE
3500 OXYGEN SYSTEM	5200 DOORS	5410 MAIN FRAME (ON NACELLE/PYLON)
3510 CREW OXYGEN SYSTEM	5210 PASSENGER/CREW DOORS	5411 FRAME/SPAR/RIB(NACELLE/PYLON)
3520 PASSENGER OXYGEN SYSTEM	5220 EMERGENCY EXIT	5412 BULKHEAD/FIREWALL (NAC/PYLON)
3530 PORTABLE OXYGEN SYSTEM	5230 CARGO/BAGGAGE DOORS	5413 LONGERON/STRINGER (NAC/PYLON)
36 PNEUMATIC	5240 SERVICE DOORS	5414 PLATE SKIN (NAC/PYLONS)
	5241 GALLEY DOORS	5415 ATTACH FITTINGS (NAC/PYLON)
3600 PNEUMATIC SYSTEM	5242 F/E COMPARTMENT DOORS	<u>55 STABILIZERS</u>
3610 PNEUMATIC DISTRIBUTION SYS	TEM 5243 HYDRAULIC COMPARTMENT DOORS	5500 EMPENNAGE STRUCTURE
3620 PNEUMATIC INDICATING SYSTE	M 5244 ACCESSORY COMPARTMENT DOORS	
	5245 AIR CONDITIONING COMPART. DOOR	RS 5511 HORIZONTAL STABILIZER SPAR/RIB
	5246 FLUID SERVICE DOORS	5512 HORIZONTAL STABILIZER PLATE/SKIN
		5513 HORIZONTAL STABILIZER TAB STRUCTURE
		5520 ELEVATOR STRUCTURE

55 STABILIZERS CONT'D	61 PROPELLERS/PROPULSORS	67 ROTORS FLIGHT CONTROL
5521 ELEVATOR SPAR/RIB STRUCTURE	6100 PROPELLER SYSTEM	6700 ROTORCRAFT FLIGHT CONTROL
5522 ELEVATOR PLATES/SKIN STRUCTURE	6110 PROPELLER ASSEMBLY	6710 MAIN ROTOR CONTROL
5523 ELEVATOR TAB STRUCTURE	6111 PROPELLER BLADE SECTION	6711 TILT ROTOR FLIGHT CONTROL
5530 VERTICAL STABILIZER STRUCTURE	6112 PROPELLER DE-ICE BOOT SECTION	6720 TAIL ROTOR CONTROL SYSTEM
5531 VERTICAL STABILIZER SPAR/RIB STRUCTUR	RE 6113 PROPELLER SPINNER SECTION	6730 ROTORCRAFT SERVO SYSTEM
5532 VERTICAL STABILIZER PLATES/SKIN	6114 PROPELLER HUB SECTION	_,
5533 VENTRAL STRUCTURE (ON VERT. STAB)	6120 PROPELLER CONTROL SYSTEM	71 POWERPLANT
5540 RUDDER STRUCTURE	6121 PROPELLER SYNCHRONIZER SECTION	7100 POWERPLANT SYSTEM
5541 RUDDER SPAR/RIB STRUCTURE	6122 PROPELLER GOVERNOR	7110 ENGINE COWLING SYSTEM
5542 RUDDER PLATE/SKIN STRUCTURE	6123 PROPELLER FEATHERING/REVERSING	7111 COWL FLAP SYSTEM
5543 RUDDER TAB STRUCTURE	6130 PROPELLER BRAKING	7112 ENGINE AIR BAFFLE SECTION
5550 EMPENNAGE FLT. CONT. ATTACH FITTING	6140 PROPELLER INDICATING SYSTEM	7120 ENGINE MOUNT SECTION
5551 HORIZONTAL STABILIZER ATTACH FITTING	CO MAIN DOTOR	7130 ENGINE FIRESEALS
5552 ELEVATOR/TAB ATTACH FITTINGS	62 MAIN ROTOR	7160 ENGINE AIR INTAKE SYSTEM
5553 VERT. STAB. ATTACH FITTINGS	6200 MAIN ROTOR SYSTEM	7170 ENGINE DRAINS
5554 RUDDER/TAB ATTACH FITTINGS	6210 MAIN ROTOR BLADES	
	6220 MAIN ROTOR HEAD	72 TURBINE/TURBOPROP ENGINE
<u>56 WINDOWS</u>	6230 MAIN ROTOR MAST/SWASHPLATE	7200 ENGINE (TURBINE/TURBOPROP)
5600 WINDOW/WINDSHIELD SYSTEM	6240 MAIN ROTOR INDICATING SYSTEM	7210 TURBINE ENGINE REDUCTION GEAR
5610 FLIGHT COMPARTMENT WINDOWS	CO. MAIN DOTOR PRIVE	7220 TURBINE ENGINE AIR INLET SECTION
5620 PASSENGER COMPARTMENT WINDOWS	63 MAIN ROTOR DRIVE	7230 TURBINE ENGINE COMPRESSOR SECTION
5630 DOOR WINDOWS	6300 MAIN ROTOR DRIVE SYSTEM	7240 TURBINE ENGINE COMBUSTION SECTION
5640 INSPECTION WINDOWS	6310 ENGINE/TRANSMISSION COUPLING	7250 TURBINE SECTION
	6320 MAIN ROTOR GEARBOX	7260 TURBINE ENGINE ACCESSORY DRIVE
<u>57 WINGS</u>	6321 MAIN ROTOR BRAKE	7261 TURBINE ENGINE OIL SYSTEM
5700 WING STRUCTURE	6322 ROTORCRAFT COOLING FAN SYSTEM	7270 TURBINE ENGINE BYPASS SECTION
5710 WING MAIN FRAME STRUCTURE	6330 MAIN ROTOR TRANSMISSION MOUNT	
5711 WING SPAR STRUCTURE	6340 ROTOR DRIVE INDICATING SYSTEM	73 ENGINE FUEL & CONTROL
5712 WING RIB STRUCTURE	C4 TAU DOTOR	7300 ENGINE FUEL & CONTROL
5713 WING LONGERON/STRINGER	64 TAIL ROTOR	7310 ENGINE FUEL DISTRIBUTION
5714 WING CENTER BOX	6400 TAIL ROTOR SYSTEM	7311 ENGINE FUEL-OIL COOLER
5720 WING MISCELLANEOUS STRUCTURE	6410 TAIL ROTOR BLADE	7312 FUEL HEATER
5730 WING PLATES/SKINS	6420 TAIL ROTOR HEAD	7313 FUEL INJECTOR NOZZLE
5740 WING ATTACH FITTINGS	6440 TAIL ROTOR INDICATING SYSTEM	7314 ENGINE FUEL PUMP
5741 WING, FUSELAGE ATTACH FITTINGS		7320 FUEL CONTROLLING SYSTEM
5742 WING, NAC/PYLON ATTACH FITTINGS	65 TAIL ROTOR DRIVE	7321 FUEL CONTROL/ELECTRONIC
5743 WING, LANDING GEAR ATTACH FITTINGS	CEOO TAIL DOTOD DRIVE CVCTEM	7322 FUEL CONTROL/CARBURETOR
5744 CONTROL SURFACE ATTACH FITTINGS	6500 TAIL ROTOR DRIVE SYSTEM	7323 TURBINE GOVERNOR
5750 WING CONTROL SURFACE STRUCTURE	6510 TAIL ROTOR DRIVE SHAFT	7324 FUEL DIVIDER
5751 AILERON STRUCTURE	6520 TAIL ROTOR GEARBOX	7330 ENGINE FUEL INDICATING SYSTEM
5752 AILERON TAB STRUCTURE	6540 TAIL ROTOR DRIVE INDICATING SYSTEM	7331 FUEL FLOW INDICATING
5753 TE FLAP STRUCTURE		7332 FUEL PRESSURE INDICATING
5754 LEADING EDGE DEVICE STRUCTURE		7333 FUEL FLOW SENSOR
5755 SPOILER STRUCTURE		7334 FUEL PRESSURE SENSOR
3. 0.22 00		

74	<u>IGNITION</u>	<u>78 E</u>	ENGINE EXHAUST	8530	RECIPROCATING ENGINE CYLINDER SECTION
7400	IGNITION SYSTEM	7800	ENGINE EXHAUST SYSTEM	8540	RECIPROCATING ENGINE REAR SECTION
7410	IGNITION POWER SUPPLY	7810	ENGINE COLLECTOR/TAILPIPE/NOZZLE	8550	RECIPROCATING ENGINE OIL SYSTEM
7411	LOW TENSION COIL	7820	ENGINE NOISE SUPPRESSOR		
7412	EXCITER	7830	THRUST REVERSER		
7413	INDUCTION VIBRATOR				
7414	MAGNETO/DISTRIBUTOR	79 I	ENGINE OIL		
7420	IGNITION HARNESS (DISTRIBUTION)	<u> </u>			
7421	SPARK PLUG/IGNITER	7900	ENGINE OIL SYSTEM (AIRFRAME)		
7430	IGNITION SWITCHING	7910	ENGINE OIL STORAGE (AIRFRAME)		
		7920	ENGINE OIL DISTRIBUTION (AIRFRAME)		
<u>75</u>	<u>AIR</u>	7921	ENGINE OIL COOLER		
7500	ENGINE BLEED AIR SYSTEM	7922	ENGINE OIL TEMP. REGULATOR		
7510	ENGINE ANTI-ICING SYSTEM	7923	OIL SHUTOFF VALVE		
7520	ENGINE COOLING SYSTEM	7930	ENGINE OIL INDICATING SYSTEM		
	COM PRESSOR BLEED CONTROL	7931	ENGINE OIL PRESSURE		
7530	COMPRESSOR BLEED CONTROL COMPRESSOR BLEED GOVERNOR	7932	ENGINE OIL QUANTITY		
7531	COMPRESSOR BLEED GOVERNOR  COMPRESSOR BLEED VALVE	7933	ENGINE OIL TEMPERATURE		
7532					
7540	BLEED AIR INDICATING SYSTEM	80 9	<u>STARTING</u>		
<u>76</u>	ENGINE CONTROLS	8000	ENGINE STARTING SYSTEM		
7600	ENGINE CONTROLS	8010	ENGINE CRANKING		
7600	ENGINE CONTROLS  ENGINE SYNCHRONIZING	8011	ENGINE STARTER		
7601		8012	ENGINE START VALVES/CONTROLS		
7602	MIXTURE CONTROL	0012	ENGINE OTAKT VALVEO/OONTROLO		
7603	POWER LEVER	81	TURBOCHARGING		
7620	ENGINE EMERGENCY SHUTDOWN SYSTEM		<u> </u>		
77	ENGINE INDICATING	8100	EXHAUST TURBINE SYSTEM (RECIP)		
		8110	POWER RECOVERY TURBINE (RECIP)		
7700	ENGINE INDICATING SYSTEM	8120	EXHAUST TURBOCHARGER		
7710	POWER INDICATING SYSTEM				
7711	ENGINE PRESSURE RATIO (EPR)	<u>82</u>	WATER INJECTION		
7712	ENGINE BM EP/TORQUE INDICATING	8200	WATER INJECTION SYSTEM		
7713	MANIFOLD PRESSURE (MP) INDICATING				
7714	ENGINE RPM INDICATING SYSTEM	83	ACCESSORY GEARBOXES		
7720	ENGINE TEMP. INDICATING SYSTEM	8300	ACCESSORY GEARBOXES		
7721	CYLINDER HEAD TEMP (CHT) INDICATING	0000	NOOLOGOKT GEMIDONEG		
7722	ENG. EGT/TIT INDICATING SYSTEM	8.5	RECIPROCATING ENGINE		
7730	ENGINE IGNITION ANALYZER SYSTEM				
7731	ENGINE IGNITION ANALYZER	8500	ENGINE (RECIPROCATING)		
7732	ENGINE VIBRATION ANALYZER	8510	RECIPROCATING ENGINE FRONT SECTIO		
7740	ENGINE INTEGRATED INSTRUMENT SYSTEM	8520	RECIPROCATING ENGINE POWER SECTION	N	

### **MECHANICS CREED**

UPON MY HONOR I swear that I shall hold in sacred trust the rights and privileges conferred upon me as a certified mechanic. Knowing full well that the safety and lives of others are dependent upon my skill and judgment, I shall never knowingly subject others to risks which I would not be willing to assume for myself, or for those dear to me.

IN DISCHARGING this trust, I pledge myself never to undertake work or approve work which I feel to be beyond the limits of my knowledge; nor shall I allow any non-certificated superior to persuade me to approve aircraft or equipment as airworthy against my better judgment; nor shall I permit my judgment to be influenced by money or other personal gain; nor shall I pass as airworthy aircraft or equipment about which I am in doubt, either as a result of direct inspection or uncertainty regarding the ability of others who have worked on it to accomplish their work satisfactorily.

I REALIZE the grave responsibility which is mine as a certified airman, to exercise my judgment on the airworthiness of aircraft and equipment. I, therefore, pledge unyielding adherence to these precepts for the advancement of aviation and for the dignity of my vocation.